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(71) **Applicant (for all designated States except US):** **RI-BOZYME PHARMACEUTICALS, INC.** [US/US]; 2950 Wilderness Place, Boulder, CO 80301 (US).

(71) **Applicants and**  
(72) **Inventors:** **BLATT, Lawrence** [US/US]; 2176 Riverside Lane, Boulder, CO 80304 (US). **MCSWIGGEN, James**, A. [AUS/US]; 4866 Franklin Drive, Boulder, CO 80301 (US).

(74) **Agent:** **TERPSTRA, Anita, J.**; McDonnell Boehnen Hulbert & Berghoff, 32nd Floor, 300 South Wacker Drive, Chicago, IL 60606 (US).

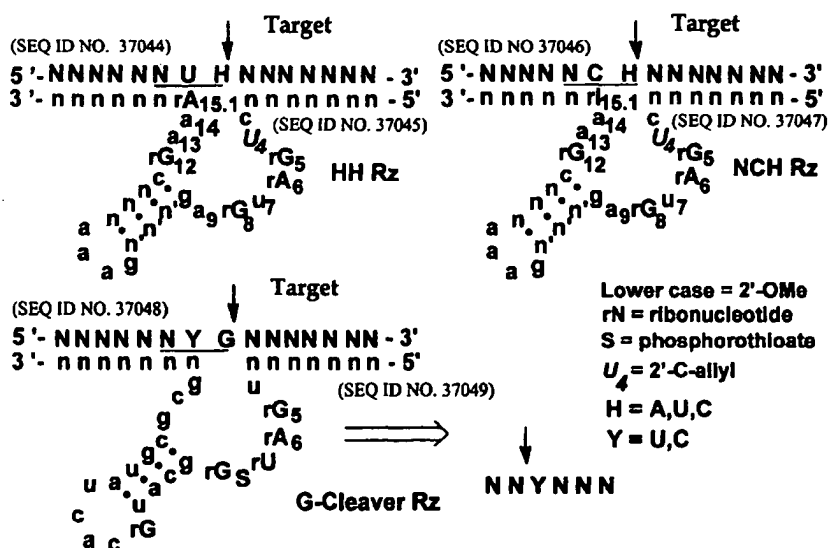
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**(54) Title:** NUCLEIC ACID-BASED TREATMENT OF DISEASES OR CONDITIONS RELATED TO WEST NILE VIRUS INFECTION

### Examples of Nuclease Stable Ribozyme Motifs



**(57) Abstract:** The present invention relates to nucleic acid molecules (e.g., ribozymes, DNAzymes, antisense oligonucleotides, triplex forming oligonucleotides, 2,5-A oligonucleotides, decoys) that modulate the expression and/or replication of West Nile Virus (WNV). The present invention also relates to chemical compositions, and methods of treatment of WNV infection and associated diseases, and conditions.

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NUCLEIC ACID-BASED TREATMENT OF DISEASES OR CONDITIONS RELATED TO  
WEST NILE VIRUS INFECTION

TECHNICAL FIELD OF INVENTION

This invention relates to compositions, reagents and methods for the treatment of diseases or conditions relating to West Nile Virus (WNV) infection.

The Sequence Listing file named "MBHB001109-ASequenceListing" (8,067,027 bytes in size) submitted on Compact Disc-Recordable (CD-R) medium ("011019\_1245") is incorporated herein by reference.

BACKGROUND OF THE INVENTION

The following is a discussion of relevant art, none of which is admitted as prior art to the present invention.

West Nile Virus (WNV) is a Class IV virus, specifically a flavivirus, identified as a member of the Japanese encephalitis virus antigenic complex. WNV is a spherical, enveloped virus containing a positive single-stranded RNA genome. Flaviviridae group also includes such pathogens as hepatitis C virus, Kunjin virus, and viruses responsible for yellow fever, dengue fever, and St. Louis encephalitis. West Nile Virus subtypes are distinguishable by antigenic variations in the envelope (E) protein and by the presence of an N-glycosylation site (Asn-Tyr-Ser) at amino acids 154–156 (Jia, 1999, *Lancet*. 354;1971-2).

The genome of WNV is composed of 10,960 nucleotides. The 5'-terminus of the WNV genome contains a type 1 cap structure that is synthesized by RNA triphosphatase, guanylyltransferase and methyltransferase (Wengler and Wengler, 1993, *Virology*, 197m; 265-273). A conserved 3'-terminal stem loop of the viral genomic RNA has been shown to bind to translation elongation factor-1-alpha prior to replication (Blackwell and Brinton, 1997, *J. Virol.*, 71, 6433-6444). At least nine WNV encoded proteins have been identified, including the non-structural proteins NS 1, NS 2a, NS 2b, NS 3, NS 4b, and NS 5, along with C, M, and E structural proteins. The NS 3 protein has been shown to have RNA triphosphatase activity (Wengler and Wengler, *supra*). The WNV NS 5 protein has been shown to possess RNA-dependent RNA polymerase activity *in vitro* (Steffens *et al.*, 1999, *J. Gen. Virol.*, 80, 2583-2590).

WNV can be transmitted to humans and domestic animals through mosquitoes and migratory birds, that serve as amplifying hosts. Although WNV infection is generally asymptomatic in areas of the world where the virus is endemic, infected humans can incur a mild fever, rash, nausea, headache, disorientation and back pain. More serious complications from WNV infection include hepatitis, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, and death, especially in the very young, sick, or elderly.

Virulence of different WNV strains can vary, and certain characteristics of the WNV can dictate susceptibility to CNS infection. One study of WNV infectivity in mice found decreased neuroinvasiveness in strain variants with glycosylated envelope proteins and among those strains with amino acid substitutions at residue 307 (Chambers *et al.*, 1998, *J. Gen. Virol.* 79:2375). Experimentally infected monkeys have demonstrated persistent neurologic infection (Pogodina *et al.*, 1983, *Arch. Virol.*, 75:71). Furthermore, human subjects who were subjected to WNV as an experimental cancer treatment and who died within approximately four weeks after such treatment showed viral infiltration of the spleen, lymph nodes, liver, and lungs, indicating disseminated infection by WNV in humans (Southam and Moore, 1951, *Am. J. Trop. Med.*, 31:724; Southam and Moore, 1954, *Am. J. Trop. Med. Hyg.*, 3:19).

The WNV incubation period manifests typically from 3 to 15 days, and the diagnosis of WNV has been confirmed by an enzyme immunoassay through IgM and IgG antibody detection (Tsai *et al.*, 1998, *Lancet*, 352:767). WNV has also been diagnosed by reverse transcriptase polymerase chain reaction (rtPCR) testing of CSF (Puri *et al.*, 1994, *Arch. Virol.*, 134:29).

The WNV infection has been reported in Africa, the Middle East, parts of Europe, the Soviet Union, South Asia and Australia (Savage *et al.*, 1999, *Am J Trop Med Hyg.*, 61:600). In one study involving 915 Egyptians, 6 percent of school children and 40 percent of young adults had antibodies to the WNV following a widespread fever outbreak in the general population (Corwin *et al.*, 1993, *Am J Trop Med Hyg.*, 48:776). Epidemics have also been reported in Israel, South Africa and parts of Europe. In a European outbreak in Romania in 1996, more than 500 cases were reported with a mortality rate of nearly 10 percent (Tsai *et al.*, 1998, *Lancet.*, 352:767 and Hubalek *et al.*, 1999, *Emerg Infect Dis.*, 5:643). Clinical manifestations of the virus in these Romanian patients included meningoencephalitis (44 percent), meningitis (40 percent), and encephalitis (16 percent). In addition, the symptoms

included fever (91 percent), headache (77 percent), neck stiffness (57 percent), vomiting (53 percent), confusion (34 percent) and coma (13 percent) (Tsai *et al.*, 1998, *Lancet.*, 532:767). The largest outbreak of the WNV to date occurred in 1974 in South Africa where nearly 3,000 cases were reported (McIntosh *et al.*, 1976, *South African Journal of Science.*, 72:295-300).

Outbreaks of WNV were not very common in the United States until 1999 when the virus caused seven deaths and 62 cases of encephalitis in New York. The outbreak of encephalitis in humans in the New York area in 1999 coincided with the death of several crows due to viscerotropic WNV infection. These avian infections were present in crows as far south as Baltimore (Anderson *et al.*, 1999, *Science.*, 286:2331). Recent reports indicate that WNV is spreading to other areas of the country as well.

Cloned from the human brain by reverse-transcriptase polymerase chain reaction, the genome of the WNV responsible for the 1999 New York outbreak was found as a lineage type I West Nile Virus. This particular strain of West Nile Virus (WNV; WNV-NY 1999) is closely related to strains previously isolated in the Middle East (Jia, 1999, *The Lancet*, 354:1971-1972).

Nearly the same time as the 1999 United States outbreak, an outbreak of meningoencephalitis caused by WNV infection occurred in Russia. This late summer outbreak was responsible for over 40 deaths out of about 1,000 reported cases. Analysis of brain tissue from five victims of this epidemic by reverse transcriptase-polymerase chain reaction confirmed the presence of WNV, as well as other flaviviruses, in each sample (Lvov *et al.*, 2000, *Emerging Infectious Diseases.*, 6:4).

After the outbreak of WNV in the United States in 1999, surveillance programs have detected increased transmission of the virus in birds and mosquitoes. In one recent case a person 78 years of age was hospitalized in Richmond County, New York for viral encephalitis and tested positive for WNV. Immunosorbent assay confirmed the presence of the IgM antibody in cerebrospinal fluid and serum samples of the individual (Novello *et al.*, 2000, *MMWR*, 49,31:714-717).

The elderly are particularly susceptible to encephalitis due to WNV infection. Other risk factors related to exposure to the virus include spending increased amounts of time

outdoors and being in the presence of a flooded areas, both places where increased contact with mosquitoes is likely (Han *et al.*, 1999, *J Infect Dis.*, 179:230).

In an attempt to prevent the spread of WNV through control of larval and adult mosquitoes, mapping, spraying and removal of breeding sites has been initiated in parts of New York and Connecticut (*Morb Mortal Wkly Rep.* 1999; 48:944). In addition, education programs have been suggested to make the public aware of WNV and its risk factors. Despite these efforts, WNV remains a threat due to its mode of transmission. At present, there is no vaccine or other known treatment for WNV infection. Accordingly there remains an unmet need for reagents and methods for the diagnosis of WNV infection. Further, there remains a need for reagents and methods for the treatment of WNV infection.

#### BRIEF SUMMARY OF THE INVENTION

The invention features novel nucleic acid-based molecules and techniques (e.g., enzymatic nucleic acid molecules (such as ribozymes, DNAzymes or allozymes), antisense nucleic acids, 2-5A antisense chimeras, triplex forming oligonucleotides, antisense nucleic acids containing RNA cleaving chemical groups, dsRNA and decoys) as well as methods for their use to detect and modulate the replication of WNV and WNV gene expression. In particular, enzymatic nucleic acid molecules capable of specifically cleaving WNV RNA are described. Also described are antisense nucleic acid molecules that specifically modulate the replication of WNV and the expression of the WNV genome. Such enzymatic and antisense nucleic acids can be used to diagnose and treat diseases associated with WNV infection, such as pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, and cirrhosis.

The invention features the use of one or more of the nucleic acid-based molecules and techniques independently or in combination to modulate the replication of WNV and/or the expression of the genes encoded by the WNV genome. In one embodiment the invention features the use of nucleic acid-based molecules and techniques to inhibit the function of the West Nile Virus genome (GenBank accession Nos. AF196835, AF260969, AF260968, AF260967, NC\_001563, AF206518, and AF202541).

The present invention features a nucleic acid molecule that modulates the replication of the West Nile Virus. In one embodiment, the nucleic acid molecule modulates the expression and/or function of RNA derived from the WNV. In a preferred embodiment, the nucleic acid molecule of the present invention is selected from the group consisting of

enzymatic nucleic acid, antisense nucleic acid, 2',5'-A nucleic acid, triplex forming nucleic acid, and decoy nucleic acid molecules.

In one embodiment, the nucleic acid molecule of the invention (*e.g.*, antisense or enzymatic nucleic acid molecule) comprises between 12 and 100 bases complementary to RNA of the WNV genome. In another embodiment, the nucleic acid molecule comprises between 14 and 24 bases complementary to RNA of the WNV genome. The nucleic acid molecule of the invention can be synthesized either enzymatically or chemically using methods described herein and other methods known in the art.

In yet another embodiment, the nucleic acid molecule of the invention can further comprise at least one sugar modification, nucleic acid base modification, phosphate backbone modification, or a combination thereof. The nucleic acid molecule of the invention can also comprise a cap structure, wherein the cap structure is at the 5'-end or 3'-end, or at both the 5'-end and the 3'-end of the nucleic acid molecule.

In one embodiment of the invention, the nucleic acid molecule is an enzymatic nucleic acid molecule. The enzymatic nucleic acid molecules of the invention are designed to cleave either the plus strand or the minus strand of WNV. The enzymatic nucleic acid molecules are also designed to cleave RNA derived from various genes encoding WNV proteins. The enzymatic nucleic acid of the invention contains one or more binding arms that comprise a sequence or sequences complementary to any sequence of WNV. In another embodiment, the enzymatic nucleic acid of the invention contains one or more binding arms that comprise a sequence or sequences complementary to any sequence(s) of SEQ ID NOs 1-7,372; 16,410-24,320; and 35,592-35,616. Examples of enzymatic nucleic acid molecules of the invention comprise the sequence of SEQ ID NOs 7,373-16,409; 24,321-35,591; or 35,617-35,641.

The enzymatic nucleic acid molecule of the invention can be in a hammerhead (HH), hairpin, hepatitis Delta virus, group I intron, VS nucleic acid, or RNase P nucleic acid configuration. The enzymatic nucleic acid molecule can also be in an Inozyme, G-cleaver, Zinzyme, or an Amberzyme configuration. The enzymatic nucleic acid molecule of the invention can also be a DNAzyme.

In one embodiment, the DNAzyme of the instant invention comprises at least ten 2'-*O*-methyl modifications. In another embodiment, the DNAzyme further comprises phosphorothioate linkages on at least one of the 5' terminal nucleotides. Said linkages are useful to improve nuclease stability. In another embodiment, the DNAzyme comprises a 3'-end modification (*e.g.*, 3',3'-inverted abasic and/or one or more phosphorothioate modifications). In another embodiment, the DNAzyme comprises at least ten 2'-*O*-methyl

modifications, phosphorothioate linkages on at least one of the 5' terminal nucleotides, and a 3'-end modification.

In another embodiment, the enzymatic nucleic acid molecule of the invention is a Hammerhead motif comprising at least one sequence complementary to any of the sequences shown as Substrate sequence in Tables III and VIII. In yet another embodiment, the enzymatic nucleic acid molecule of the invention is an Inozyme motif comprising at least one sequence complementary to any of the sequences shown as substrate sequence in Tables IV and IX. In another embodiment, the enzymatic nucleic acid molecule of the invention is a DNAzyme comprising at least one sequence complementary to any of the sequences shown as substrate sequences in Tables VI and XI. In another embodiment, the enzymatic nucleic acid molecule of the invention is a Zinzyme comprising at least one sequence complementary to any of the sequences shown as substrate sequence in Tables V and X. In another embodiment, the enzymatic nucleic acid molecule of the invention is an Amberzyme comprising at least one sequences complementary to any of the sequences shown as substrate sequences in Tables VII and XII.

In one embodiment, the enzymatic nucleic acid molecule contemplated by the instant invention comprises at least five ribose residues, at least ten 2'-O-methyl modifications, and a 3'- end modification (e.g., 3',3'-inverted abasic moiety, phosphorothioate, phosphorodithioate). In another embodiment, the enzymatic nucleic acid further comprises phosphorothioate modifications at the 5'-end (for example having 1, 2, 3, 4 or 5 phosphorothioates). In another embodiment the invention features an enzymatic nucleic acid molecule that does not require the presence of a ribonucleotide to be functional, for example, to cleave WNV RNA.

In another aspect of the invention, the nucleic acid molecule of the invention is an antisense nucleic acid molecule. The antisense nucleic acid molecule is designed to modulate either the plus strand or the minus strand of WNV. The antisense nucleic acid molecule are also designed to modulate RNA derived from various genes encoding WNV proteins. The antisense nucleic acid of the invention comprises a sequence complementary to any WNV sequence. For example, in some embodiments, the antisense nucleic acid of the invention comprises a sequence complementary to any of the sequences of SEQ ID NOs 1-7,372; 16,410-24,320; and 35,592-35,616.

In one embodiment, the antisense nucleic acid molecule of the instant invention comprises a phosphorothioate core with both 3' and 5' -end modifications. In one aspect of this embodiment, the 3' and/or 5'- end modification contemplated by the instant invention is a 3',3'-inverted abasic moiety and/or a 5',5'-inverted abasic moiety, respectively.

The invention also provides a method for modulating the replication of WNV in a cell comprising the step of contacting said cell with the nucleic acid molecule of claim 1 under conditions suitable for said down regulation of WNV replication. In addition the invention provides a method for down regulating the replication of WNV in a mammal comprising the step of administering to said infected mammal a nucleic acid of claim 1. In one embodiment of the disclosed methods, the modulation of replication of WNV in a cell or mammal results in the down-regulation of WNV replication in the cell or mammal.

In one embodiment, the invention features a method of modulating WNV activity in a cell, comprising the step of contacting the cell with the nucleic acid molecule of the invention, under conditions suitable for the modulation of WNV activity. In one embodiment, the modulation results in the reduction of WNV activity. In a further embodiment, the invention features a method of treating a patient having a condition associated with the level of WNV, comprising contacting cells of the patient with the nucleic acid molecule of the invention, under conditions suitable for the treatment. In one embodiment, the method of treating a patient having a condition associated with the level of WNV comprises the use of one or more therapies under conditions suitable for the treatment, in conjunction with the nucleic acid molecule.

In another embodiment, the method for treating a patient having a condition associated with the level of WNV comprises administering to the patient a nucleic acid molecule that modulates expression of RNA derived from the WNV genome in conjunction with one or more of other therapies, such as antiviral agents and interferons. In one embodiment of the described method, the WNV RNA expression is down-regulated.

The invention further relates to a method of cleaving WNV RNA, comprising contacting the nucleic acid molecule of the invention with WNV RNA under conditions suitable for the cleavage of WNV RNA. In another embodiment, the method of cleaving WNV RNA is carried out in the presence of a divalent cation. In one embodiment, for example, the divalent cation is  $Mg^{2+}$ .

The invention also contemplates a pharmaceutical composition comprising a nucleic acid molecule of the invention and a pharmaceutically acceptable carrier. In one embodiment, the invention features a kit for the treatment of a patient having a condition associated with the level of WNV, comprising the nucleic acid molecule of the invention. The invention also features a kit for detecting a level of WNV in a system, comprising the nucleic acid molecule of the invention.

The invention also features an expression vector comprising a nucleic acid sequence encoding one or more nucleic acid molecule (e.g, 1, 2, 3, 4 nucleic acid molecules) that can

be the same or different, of the invention (e.g., enzymatic nucleic acid and/or antisense), in a manner that allows expression of that nucleic acid molecule(s).

The nucleic acid-based molecules of the present invention are useful, alone or in combination with other therapies, for the prevention and/or treatment of diseases and conditions associated with WNV infection, such as pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and any other diseases or conditions that are related to or respond to the levels of WNV in a cell or tissue.

The nucleic acid-based molecules of the invention can be added directly, or can be complexed with a delivery agent, such as a lipid, phospholipid, cationic lipid, packaged within a liposome(s), or otherwise delivered to target cells or tissues using the methods described herein and known in the art. The nucleic acid or nucleic acid complexes can be locally administered to relevant tissues *ex vivo* or *in vivo* through injection, infusion pump or stent, with or without their incorporation in biopolymers. In one embodiment, the enzymatic nucleic acid molecule comprises one or more sequences that are complementary to the substrate sequences in **Tables III to XIII**. Examples of the inventive enzymatic nucleic acid molecules comprise sequences which are also shown in **Tables III to XIII**.

In one embodiment, the invention features a method of administering to a cell, for example a mammalian cell or human cell, an enzymatic nucleic acid molecule of the invention comprising contacting the cell with the enzymatic nucleic acid molecule under conditions suitable for administration. The method of administration can be in the presence of a delivery reagent, for example, a lipid, cationic lipid, phospholipid, or liposome. In another embodiment, the invention features a method of administering to a cell an expression vector comprising a nucleic acid sequence encoding one or more nucleic acid molecules of the invention comprising contacting the cell with said vector under conditions suitable for administration.

Other features and advantages of the invention will be apparent from the following description of the preferred embodiments thereof, and from the claims.

#### BRIEF DESCRIPTION OF THE FIGURES

**Figure 1** shows examples of chemically stabilized enzymatic nucleic acid motifs. “**HH**” represents hammerhead enzymatic nucleic acid motif (Usman *et al.*, 1996, *Curr. Op. Struct. Bio.*, 1, 527); “**NCH**” represents the NCH enzymatic nucleic acid motif (Ludwig & Sproat, International PCT Publication No. WO 98/58058); “**G-Cleaver**” represents G-cleaver

enzymatic nucleic acid motif (Kore *et al.*, 1998, *Nucleic Acids Research* 26, 4116-4120). "N" or "n" represent independently a nucleotide that can be same or different and have complementarity to each other; "rI", represents ribo-Inosine nucleotide; arrow indicates the site of cleavage within the target. Position 4 of the HH Rz and the NCH Rz is shown as having 2'-C-allyl modification, but those skilled in the art will recognize that this position can be modified with other modifications well known in the art, so long as such modifications do not significantly inhibit the activity of the enzymatic nucleic acid.

**Figure 2** shows an example of the Amberzyme enzymatic nucleic acid molecule motif that is chemically stabilized (see for example Beigelman *et al.*, International PCT publication No. WO 99/55857). The Amberzyme motif is a class of enzymatic nucleic molecules that do not require the presence of a ribonucleotide (2'-OH) group for its activity.

**Figure 3** shows an example of the Zinzyme A enzymatic nucleic acid molecule motif that is chemically stabilized (see for example Beigelman *et al.*, Beigelman *et al.*, International PCT publication No. WO 99/55857). The Zinzyme motif is a class of enzymatic nucleic molecules that do not require the presence of a ribonucleotide (2'-OH) group for its activity.

**Figure 4** shows an example of a DNAzyme motif (*e.g.*, "10-23") described by Santoro *et al.*, 1997, *PNAS*, 94, 4262.

#### DETAILED DESCRIPTION OF THE INVENTION

Due to sequence variability of the WNV genome, it is preferable to target the conserved regions of the WNV genome with the nucleic acid molecules of the instant invention. Accordingly, the present invention describes nucleic acid molecules targeting the conserved regions of the WNV genome. Conserved regions of the WNV genome include the 39-UTR, E, NS3, and NS5 regions. Nucleic acid molecules designed against these and other conserved regions of various WNV isolates enable, for example the down regulation of WNV replication in diverse patient populations, as well as ensure the effectiveness of the nucleic acid molecules against WNV quasi species that evolve due to mutations in the non-conserved regions of the WNV genome. For instance, a single nucleic acid molecule (such as an enzymatic nucleic acid molecule) can be targeted to inhibit all known strains and variants of WNV by targeting the nucleic acid to a conserved sequence present in all WNV genomes.

The present invention relates to a nucleic acid molecule that modulates the replication of WNV. For example, the nucleic acid molecule can be an enzymatic nucleic acid, an allozyme, an antisense nucleic acid, a 2', 5'-A nucleic acid, triplex forming nucleic acid, dsRNA, siRNA or decoy nucleic acid molecule.

In one embodiment of the present invention, a nucleic acid molecule of the instant invention can be between 12 and 100 nucleotides in length. Exemplary enzymatic nucleic acid molecules of the invention are shown in **Table III-XIII**. For example, enzymatic nucleic acid molecules of the invention can be between 15 and 50 nucleotides in length, and in another embodiment between 25 and 40 nucleotides in length, *e.g.*, 34, 36, or 38 nucleotides in length (for example see Jarvis *et al.*, 1996, *J. Biol. Chem.*, 271, 29107-29112). Exemplary DNAzymes of the invention can be between 15 and 40 nucleotides in length, and in one embodiment, between 25 and 35 nucleotides in length, *e.g.*, 29, 30, 31, or 32 nucleotides in length (see, *e.g.*, Santoro *et al.*, 1998, *Biochemistry*, 37, 13330-13342; Chartrand *et al.*, 1995, *Nucleic Acids Research*, 23, 4092-4096). Exemplary antisense molecules of the invention can be between 15 and 75 nucleotides in length, and in one embodiment between 20 and 35 nucleotides in length, *e.g.*, 25, 26, 27, or 28 nucleotides in length (see for example Woolf *et al.*, 1992, *PNAS*, 89, 7305-7309; Milner *et al.*, 1997, *Nature Biotechnology*, 15, 537-541). Exemplary triplex forming oligonucleotide molecules of the invention are between 10 and 40 nucleotides in length, and in one embodiment are between 12 and 25 nucleotides in length, *e.g.*, 18, 19, 20, or 21 nucleotides in length (see for example Maher *et al.*, 1990, *Biochemistry*, 29, 8820-8826; Strobel and Dervan, 1990, *Science*, 249, 73-75). Those skilled in the art will recognize that all that is required is for the nucleic acid molecule to be of length and conformation sufficient and suitable for the nucleic acid molecule to catalyze a reaction contemplated herein. The length of the nucleic acid molecules of the instant invention are not limiting within the general limits stated.

The invention relates to a class of nucleic acid-based molecules that exhibit a high degree of specificity for the RNA of a desired target, such as WNV RNA. In one embodiment, the enzymatic nucleic acid molecule is targeted to a highly conserved sequence region of RNA encoding the WNV genome and/or proteins, such that specific treatment of a disease or condition associated with WNV is provided using one or more nucleic acid molecules of the invention. In addition, the nucleic acid based molecule can be targeted to RNAs that share homology with the WNV gene. The nucleic acid molecules of the invention can be delivered exogenously to specific tissue or cellular targets as required. Alternatively, the nucleic acid molecules (*e.g.*, enzymatic nucleic acids and antisense) can be expressed from DNA and/or RNA vectors that are delivered to specific cells.

In yet another embodiment, the invention features antisense nucleic acid molecules, dsRNA, and 2-5A chimera including sequences complementary to the substrate sequences shown in **Tables III to XIII**. Such nucleic acid molecules can include sequences as shown for the binding arms of the enzymatic nucleic acid molecules in **Tables III to XIII**. Similarly, triplex molecules targeted to the corresponding DNA target regions, and containing the DNA equivalent of a target sequence or a sequence complementary to the specified target

(substrate) sequence are provided. Typically, antisense molecules are complementary to a target sequence along a single contiguous sequence of the antisense molecule. However, in certain embodiments, the antisense molecule can bind to substrate such that the substrate molecule forms a loop, and/or the antisense molecule binds such that the antisense molecule forms a loop. Thus, the antisense molecule can be complementary to two or more non-contiguous substrate sequences, or two or more non-contiguous sequence portions of an antisense molecule can be complementary to a target sequence, or both.

The nucleic acid molecules of the present invention can be expressed from transcription units inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. Enzymatic nucleic acid or antisense expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. In one embodiment, the recombinant vectors capable of expressing the enzymatic nucleic acids or antisense are delivered as described herein, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of enzymatic nucleic acids or antisense. Such vectors can be repeatedly administered as necessary. Once expressed, the enzymatic nucleic acids or antisense bind to the target RNA and modulate its function or expression. Delivery of enzymatic nucleic acid or antisense expressing vectors can be systemic, such as by intravenous or intramuscular administration, by administration to target cells ex-planted from the patient followed by reintroduction into the patient, or by any other means that would allow for introduction into the desired target cell. Antisense DNA or DNazymes can be expressed endogenously via the use of a single stranded DNA intracellular expression vector.

The nucleic acid molecules of the instant invention, individually, or in combination or in conjunction with other drugs, can be used to treat diseases or conditions discussed herein. For example, to treat a disease or condition associated with the levels of WNV, the nucleic acid molecules can be administered to a patient or can be administered to other appropriate cells evident to those skilled in the art, individually or in combination with one or more drugs under conditions suitable for the treatment.

In a further embodiment, the described molecules, such as antisense or enzymatic nucleic acids, can be used in combination with other known treatments to treat conditions. For example, the described molecules can be used in combination with one or more known therapeutic agents to treat WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states associated with WNV infection.

In another embodiment, the invention features nucleic acid-based inhibitors (*e.g.*, enzymatic nucleic acid molecules, antisense nucleic acids, 2-5A antisense chimeras, triplex

forming oligonucleotides, antisense nucleic acids containing RNA cleaving chemical groups) and methods for their use to down regulate or inhibit the expression of genes (*e.g.*, WNV) capable of progression and/or maintenance of WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states; associated with WNV infection. Such genes can be cellular genes that are involved, and/or essential for the replication and/or propagation of WNV. Nucleic acid molecules targeting such cellular gene expression is useful in the modulation of WNV replication and/or propagation.

By "modulate" is meant that the expression of the gene, or level of RNA molecules or equivalent RNA molecules encoding one or more WNV protein or WNV protein subunits, or activity of one or more WNV protein or WNV protein subunits is up-regulated or down-regulated, such that the expression, level, or activity is greater than or less than that observed in the absence of a nucleic acid molecule of the invention.

By "inhibit", "down-regulate", or "reduce", it is meant that the expression of the gene, or level of RNA molecules or equivalent RNA molecules encoding one or more proteins or protein subunits, or activity of one or more proteins or protein subunits, such as WNV proteins or WNV subunit(s), is reduced below that observed in the absence of the nucleic acid molecules of the invention. In one embodiment, inhibition, down-regulation or reduction with an enzymatic nucleic acid molecule is below that level observed in the presence of an enzymatically inactive or attenuated molecule that is able to bind to the same site on the target RNA molecule, but is unable to cleave that RNA molecule. In another embodiment, inhibition, down-regulation, or reduction with antisense oligonucleotides is below that level observed in the presence of, for example, an oligonucleotide with scrambled sequence or with mismatches. In another embodiment, inhibition, down-regulation, or reduction of WNV with a nucleic acid molecule of the instant invention is greater in the presence of the nucleic acid molecule than in its absence.

By "up-regulate" is meant that the expression of a gene, or level of RNA molecules or equivalent RNA molecules encoding one or more proteins, protein subunits, or activity of one or more proteins or protein subunits, such as WNV proteins or WNV subunits, is greater than that observed in the absence of the nucleic acid molecules of the invention. For example, the expression of a gene, such as a WNV gene, can be increased in order to treat, prevent, ameliorate, or modulate a pathological condition caused or exacerbated by an absence or low level of gene expression.

By "enzymatic nucleic acid molecule" it is meant a nucleic acid molecule that has complementarity in a substrate binding region to a specified gene target, and also has an enzymatic activity that is active to specifically cleave target a RNA molecule. That is, the

enzymatic nucleic acid molecule is able to intermolecularly cleave a RNA molecule and thereby inactivate a target RNA molecule. These complementary regions allow sufficient hybridization of an enzymatic nucleic acid molecule to a target RNA molecule and thus permit cleavage. One hundred percent complementarity is preferred, but complementarity as low as 50-75% can also be useful in this invention (see for example Werner and Uhlenbeck, 1995, *Nucleic Acids Research*, 23, 2092-2096; Hammann *et al.*, 1999, *Antisense and Nucleic Acid Drug Dev.*, 9, 25-31). The nucleic acids can be modified at the base, sugar, and/or phosphate groups. The term enzymatic nucleic acid is used interchangeably with phrases such as ribozymes, catalytic RNA, enzymatic RNA, catalytic DNA, aptazyme or aptamer-binding ribozyme, regulatable ribozyme, catalytic oligonucleotides, nucleozyme, DNazyme, RNA enzyme, endoribonuclease, endonuclease, minizyme, leadzyme, oligozyme or DNA enzyme. All of these terminologies describe nucleic acid molecules with enzymatic activity. The specific enzymatic nucleic acid molecules described in the instant application are not limiting in the invention and those skilled in the art will recognize that all that is important in an enzymatic nucleic acid molecule of this invention is that it has a specific substrate binding site that is complementary to one or more of the target nucleic acid regions, and that it have nucleotide sequences within or surrounding that substrate binding site which impart a nucleic acid cleaving and/or ligation activity to the molecule (Cech *et al.*, U.S. Patent No. 4,987,071; Cech *et al.*, 1988, 260 *JAMA* 3030).

By "nucleic acid molecule" as used herein is meant a molecule comprising nucleotides. The nucleic acid can be single, double, or multiple stranded and can comprise modified or unmodified nucleotides or non-nucleotides or various mixtures and combinations thereof.

By "enzymatic portion" or "catalytic domain" is meant that portion/region of the enzymatic nucleic acid molecule essential for cleavage of a nucleic acid substrate (for example, see **Figures 1-4**).

By "substrate binding arm" or "substrate binding domain" is meant that portion/region of a enzymatic nucleic acid that is able to interact, for example, via complementarity (*i.e.*, able to base-pair with), with a portion of its substrate. Such complementarity can be 100%, but can be less if desired. For example, as few as 10 bases out of 14 can be base-paired (see for example Werner and Uhlenbeck, 1995, *Nucleic Acids Research*, 23, 2092-2096; Hammann *et al.*, 1999, *Antisense and Nucleic Acid Drug Dev.*, 9, 25-31). Examples of such arms are shown generally in **Figures 1-4**. That is, these arms contain sequences within a enzymatic nucleic acid that are intended to bring enzymatic nucleic acid and target RNA together through complementary base-pairing interactions. The enzymatic nucleic acid of the invention can have binding arms that are contiguous or non-contiguous and can be of varying lengths. The length of the binding arm(s) can be greater than or equal to four nucleotides and

of sufficient length to stably interact with a target RNA; in one embodiment they can be 12-100 nucleotides; in another embodiment they can be 14-24 nucleotides long (see for example Werner and Uhlenbeck, *supra*; Hamman *et al.*, *supra*; Hampel *et al.*, EP0360257; Berzal-Herranze *et al.*, 1993, *EMBO J.*, 12, 2567-73) or between 8 and 14 nucleotides long. If two binding arms are chosen, the design is such that the length of the binding arms are symmetrical (*i.e.*, each of the binding arms is of the same length; *e.g.*, four and four, five and five nucleotides, or six and six nucleotides, or seven and seven nucleotides long) or asymmetrical (*i.e.*, the binding arms are of different length; *e.g.*, three and five, six and three nucleotides; three and six nucleotides long; four and five nucleotides long; four and six nucleotides long; four and seven nucleotides long; and the like).

By "Inozyme" or "NCH" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described as NCH Rz in **Figure 2**. Inozymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet NCH/, where N is a nucleotide, C is cytidine and H is adenosine, uridine or cytidine, and / represents the cleavage site. H is used interchangeably with X. Inozymes can also possess endonuclease activity to cleave RNA substrates having a cleavage triplet NCN/, where N is a nucleotide, C is cytidine, and / represents the cleavage site. "I" in **Figure 2** represents an Inosine nucleotide, including a ribo-Inosine or xylo-Inosine nucleoside.

By "G-cleaver" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described as G-cleaver Rz in **Figure 2**. G-cleavers possess endonuclease activity to cleave RNA substrates having a cleavage triplet NYN/, where N is a nucleotide, Y is uridine or cytidine and / represents the cleavage site. G-cleavers can be chemically modified as is generally shown in **Figure 2**.

By "zinzyme" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described in **Figure 4**. Zinzymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet including but not limited to, YG/Y, where Y is uridine or cytidine, and G is guanosine and / represents the cleavage site. Zinzymes can be chemically modified to increase nuclease stability through substitutions as are generally shown in **Figure 4**, including substituting 2'-O-methyl guanosine nucleotides for guanosine nucleotides. In addition, differing nucleotide and/or non-nucleotide linkers can be used to substitute the 5'-gaaa-2' loop shown in the figure. Zinzymes represent a non-limiting example of an enzymatic nucleic acid molecule that does not require a ribonucleotide (2'-OH) group within its own nucleic acid sequence for activity.

By "amberzyme" motif or configuration is meant, an enzymatic nucleic acid molecule comprising a motif as is generally described in **Figure 3**. Amberzymes possess endonuclease activity to cleave RNA substrates having a cleavage triplet NG/N, where N is a nucleotide, G

is guanosine, and / represents the cleavage site. Amberzymes can be chemically modified to increase nuclease stability through substitutions as are generally shown in **Figure 3**. In addition, differing nucleoside and/or non-nucleoside linkers can be used to substitute the 5'-gaaa-3' loops shown in the figure. Amberzymes represent a non-limiting example of an enzymatic nucleic acid molecule that does not require a ribonucleotide (2'-OH) group within its own nucleic acid sequence for activity.

By 'DNAzyme' is meant, an enzymatic nucleic acid molecule that does not require the presence of a 2'-OH group within its own nucleic acid sequence for activity. In particular embodiments, the enzymatic nucleic acid molecule can have an attached linker or linkers or other attached or associated groups, moieties, or chains containing one or more nucleotides with 2'-OH groups. DNAzymes can be synthesized chemically or expressed endogenously *in vivo*, by means of a single stranded DNA vector or equivalent thereof. An example of a DNAzyme is shown in **Figure 5** and is generally reviewed in Usman *et al.*, US patent No., 6,159,714; Chartrand *et al.*, 1995, *NAR* 23, 4092; Breaker *et al.*, 1995, *Chem. Bio.* 2, 655; Santoro *et al.*, 1997, *PNAS* 94, 4262; Breaker, 1999, *Nature Biotechnology*, 17, 422-423; and Santoro *et al.*, 2000, *J. Am. Chem. Soc.*, 122, 2433-39. The "10-23" DNAzyme motif is one particular type of DNAzyme that was evolved using *in vitro* selection (see Santoro *et al.*, *supra*). Additional DNAzyme motifs can be selected for using techniques similar to those described in these references, and hence, are within the scope of the present invention.

By "sufficient length" is meant an oligonucleotide of greater than or equal to 3 nucleotides in length and long enough to provide the intended function (such as binding) under the expected condition. For example, for binding arms of enzymatic nucleic acid "sufficient length" means that the binding arm sequence is long enough to provide stable binding to a target site under the expected reaction conditions and environment. The binding arms are not so long as to prevent useful turnover of the nucleic acid molecule.

By "stably interact" is meant interaction of the oligonucleotides with target nucleic acid (*e.g.*, by forming hydrogen bonds with complementary nucleotides in the target under physiological conditions) that is sufficient for the intended purpose (*e.g.*, cleavage of target RNA by an enzyme).

By RNA "equivalent" to WNV is meant to include any naturally occurring RNA molecule having a degree of homology (partial or complete, for example 70% to 100% homology) with an RNA molecule encoding a WNV protein or an RNA encoding a protein with similar function as a WNV protein in various organisms, including, for example, human, birds, rodent, primate, and other organisms and parasites. The equivalent RNA sequence can include in addition to the coding region, regions such as 5'-untranslated region, 3'-

untranslated region, introns, intron-exon junction and the like. By "homology" or "degree of homology" is meant the degree to which the nucleotide sequence of two or more nucleic acid molecules that are partially or completely identical.

By "antisense nucleic acid", it is meant a non-enzymatic nucleic acid molecule that binds to target RNA by means of RNA-RNA or RNA-DNA or RNA-PNA (protein nucleic acid; Egholm *et al.*, 1993 *Nature* 365, 566) interactions and alters the activity of the target RNA (for a review, see Stein and Cheng, 1993 *Science* 261, 1004 and Woolf *et al.*, US patent No. 5,849,902). Typically, antisense molecules are complementary to a target sequence along a single contiguous sequence of the antisense molecule. However, in certain embodiments, an antisense molecule can bind to substrate such that the substrate molecule forms a loop, and/or an antisense molecule can bind such that the antisense molecule forms a loop. Thus, the antisense molecule can be complementary to two or more non-contiguous substrate sequences or two or more non-contiguous sequence portions of an antisense molecule can be complementary to a target sequence, or both. For a review of current antisense strategies, see Schmajuk *et al.*, 1999, *J. Biol. Chem.*, 274, 21783-21789, Delihias *et al.*, 1997, *Nature*, 15, 751-753, Stein *et al.*, 1997, *Antisense N. A. Drug Dev.*, 7, 151, Crooke, 2000, *Methods Enzymol.*, 313, 3-45; Crooke, 1998, *Biotech. Genet. Eng. Rev.*, 15, 121-157, Crooke, 1997, *Ad. Pharmacol.*, 40, 1-49. In addition, antisense DNA can be used to target RNA by means of DNA-RNA interactions, thereby activating RNase H, that digests the target RNA in the duplex. The antisense oligonucleotides can comprise one or more RNase H activating region that is capable of activating RNase H cleavage of a target RNA. Antisense DNA can be synthesized chemically or expressed via the use of a single stranded DNA expression vector or equivalent thereof.

By "RNase H activating region" is meant a region (generally greater than or equal to 4-25 nucleotides in length, and in one embodiment from 5-11 nucleotides in length) of a nucleic acid molecule capable of binding to a target RNA to form a non-covalent complex that is recognized by cellular RNase H enzyme (see for example Arrow *et al.*, US 5,849,902; Arrow *et al.*, US 5,989,912). The RNase H enzyme binds to the nucleic acid molecule-target RNA complex and cleaves the target RNA sequence. The RNase H activating region comprises, for example, phosphodiester, phosphorothioate (for example, at least four of the nucleotides are phosphorothioate substitutions; and in another embodiment, 4-11 of the nucleotides are phosphorothioate substitutions); phosphorodithioate, 5'-thiophosphate, or methylphosphonate backbone chemistry or a combination thereof. In addition to one or more backbone chemistries described above, the RNase H activating region can also comprise a variety of sugar chemistries. For example, the RNase H activating region can comprise deoxyribose, arabino, fluoroarabino or a combination thereof, nucleotide sugar chemistry. Those skilled in the art will recognize that the foregoing are non-limiting examples and that

any combination of phosphate, sugar and base chemistry of a nucleic acid that supports the activity of RNase H enzyme is within the scope of the definition of the RNase H activating region and the instant invention.

By "2-5A antisense chimera" is meant an antisense oligonucleotide containing a 5'-phosphorylated 2'-5'-linked adenylate residue. These chimeras bind to target RNA in a sequence-specific manner and activate a cellular 2-5A-dependent ribonuclease that, in turn, cleaves the target RNA (Torrence *et al.*, 1993 *Proc. Natl. Acad. Sci. USA* 90, 1300; Silverman *et al.*, 2000, *Methods Enzymol.*, 313, 522-533; Player and Torrence, 1998, *Pharmacol. Ther.*, 78, 55-113).

By "triplex forming oligonucleotides" is meant an oligonucleotide that can bind to a double-stranded DNA in a sequence-specific manner to form a triple-strand helix. Formation of such triple helix structure has been shown to inhibit transcription of the targeted gene (Duval-Valentin *et al.*, 1992 *Proc. Natl. Acad. Sci. USA* 89, 504; Fox, 2000, *Curr. Med. Chem.*, 7, 17-37; Praseuth *et al.*, 2000, *Biochim. Biophys. Acta*, 1489, 181-206).

By "gene" it is meant a nucleic acid that encodes an RNA, for example, nucleic acid sequences including, but not limited to, structural genes encoding a polypeptide.

By "WNV proteins" is meant, a protein or a mutant protein derivative thereof, comprising a protein/peptide encoded by WNV RNA.

"Complementarity" refers to the ability of a nucleic acid to form hydrogen bond(s) with another RNA molecule by either traditional Watson-Crick or other non-traditional types. In reference to the nucleic molecules of the present invention, the binding free energy for a nucleic acid molecule with its target or complementary sequence is sufficient to allow the relevant function of the nucleic acid to proceed, e.g., enzymatic nucleic acid cleavage, antisense or triple helix inhibition. Determination of binding free energies for nucleic acid molecules is well known in the art (see, e.g., Turner *et al.*, 1987, *CSH Symp. Quant. Biol.* LII pp.123-133; Frier *et al.*, 1986, *Proc. Nat. Acad. Sci. USA* 83:9373-9377; Turner *et al.*, 1987, *J. Am. Chem. Soc.* 109:3783-3785). A percent complementarity indicates the percentage of contiguous residues in a nucleic acid molecule that can form hydrogen bonds (e.g., Watson-Crick base pairing) with a second nucleic acid sequence (e.g., 5, 6, 7, 8, 9, 10 out of 10 being 50%, 60%, 70%, 80%, 90%, and 100% complementary). "Perfectly complementary" means that all the contiguous residues of a nucleic acid sequence will hydrogen bond with the same number of contiguous residues in a second nucleic acid sequence.

By "RNA" is meant a molecule comprising at least one ribonucleotide residue. By "ribonucleotide" or "2'-OH" is meant a nucleotide with a hydroxyl group at the 2' position of a  $\beta$ -D-ribo-furanose moiety.

By "decoy RNA" is meant a RNA molecule that mimics the natural binding domain for a ligand. The decoy RNA therefore competes with natural binding target for the binding of a specific ligand. For example, it has been shown that over-expression of HIV trans-activation response (TAR) RNA can act as a "decoy" and efficiently binds HIV tat protein, thereby preventing it from binding to TAR sequences encoded in the HIV RNA (Sullenger et al., 1990, *Cell*, 63, 601-608). This is but a specific example and those in the art will recognize that other embodiments can be readily generated using techniques generally known in the art, see for example Gold *et al.*, 1995, *Annu. Rev. Biochem.*, 64, 763; Brody and Gold, 2000, *J. Biotechnol.*, 74, 5; Sun, 2000, *Curr. Opin. Mol. Ther.*, 2, 100; Kusser, 2000, *J. Biotechnol.*, 74, 27; Hermann and Patel, 2000, *Science*, 287, 820; and Jayasena, 1999, *Clinical Chemistry*, 45, 1628.

The term "double stranded RNA" or "dsRNA" as used herein refers to a double stranded RNA molecule capable of RNA interference, including short interfering RNA "siRNA" (see, e.g., Bass, 2001, *Nature*, 411, 428-429; Elbashir et al., 2001, *Nature*, 411, 494-498).

The term "allozyme" as used herein refers to an allosteric enzymatic nucleic acid molecule, see, e.g., George *et al.*, US Patent Nos. 5,834,186 and 5,741,679, Shih *et al.*, US Patent No. 5,589,332, Nathan *et al.*, US Patent No. 5,871,914, Nathan and Ellington, International PCT publication No. WO 00/24931, Breaker *et al.*, International PCT Publication Nos. WO 00/26226 and 98/27104, and Sullenger *et al.*, International PCT publication No. WO 99/29842. The term "2-5A chimera" as used herein refers to an oligonucleotide containing a 5'-phosphorylated 2'-5'-linked adenylyate residue. These chimeras bind to target RNA in a sequence-specific manner and activate a cellular 2-5A-dependent ribonuclease which, in turn, cleaves the target RNA (Torrence *et al.*, 1993 *Proc. Natl. Acad. Sci. USA* 90, 1300; Silverman *et al.*, 2000, *Methods Enzymol.*, 313, 522-533; Player and Torrence, 1998, *Pharmacol. Ther.*, 78, 55-113).

The term "triplex forming oligonucleotides" as used herein refers to an oligonucleotide that can bind to a double-stranded DNA in a sequence-specific manner to form a triple-strand helix. Formation of such triple helix structure has been shown to inhibit transcription of the targeted gene (Duval-Valentin *et al.*, 1992 *Proc. Natl. Acad. Sci. USA* 89, 504; Fox, 2000, *Curr. Med. Chem.*, 7, 17-37; Praseuth *et al.*, 2000, *Biochim. Biophys. Acta*, 1489, 181-206).

By "vectors" is meant any nucleic acid and/or viral-based molecule used to deliver a desired nucleic acid.

By "patient" is meant an organism that is a donor or recipient of explanted cells or the cells themselves. "Patient" also refers to an organism to that the nucleic acid molecules of the

invention can be administered. In one embodiment, a patient can be a mammal or mammalian cells. In another embodiment, a patient is a human or human cells.

By "enhanced enzymatic activity" is meant to include activity measured *in vitro* and/or *in vivo* where the activity is a reflection of both the catalytic activity and the stability of the nucleic acid molecules of the invention. In this invention, the product of these activities can be increased *in vitro* and/or *in vivo* compared to an all RNA enzymatic nucleic acid or an all DNA enzyme. In some cases, the activity or stability of the nucleic acid molecule can be decreased (i.e., less than ten-fold), but the overall activity of the nucleic acid molecule is enhanced, *in vitro* and/or *in vivo*.

By "cap structure" is meant chemical modifications that have been incorporated at either terminus of the oligonucleotide (see for example Wincott *et al.*, WO 97/26270, incorporated by reference herein). These terminal modifications protect the nucleic acid molecule from exonuclease degradation, and can help in delivery and/or localization within a cell. The cap can be present at the 5'-terminus (5'-cap) or at the 3'-terminus (3'-cap) or can be present on both terminus. In non-limiting examples, the 5'-cap is selected from the group consisting of inverted abasic residue (moiety), 4',5'-methylene nucleotide; 1-(beta-D-erythrofuransyl) nucleotide, 4'-thio nucleotide, carbocyclic nucleotide; 1,5-anhydrohexitol nucleotide; L-nucleotides; alpha-nucleotides; modified base nucleotide; phosphorodithioate linkage; *threo*-pentofuransyl nucleotide; acyclic 3',4'-seco nucleotide; acyclic 3,4-dihydroxybutyl nucleotide; acyclic 3,5-dihydroxypentyl nucleotide, 3'-3'-inverted nucleotide moiety; 3'-3'-inverted abasic moiety; 3'-2'-inverted nucleotide moiety; 3'-2'-inverted abasic moiety; 1,4-butanediol phosphate; 3'-phosphoramidate; hexylphosphate; aminoethyl phosphate; 3'-phosphate; 3'-phosphorothioate; phosphorodithioate; or bridging or non-bridging methylphosphonate moiety (for more details see Wincott *et al.*, International PCT publication No. WO 97/26270, incorporated by reference herein). In yet another preferred embodiment the 3'-cap is selected from a group comprising, 4',5'-methylene nucleotide; 1-(beta-D-erythrofuransyl) nucleotide; 4'-thio nucleotide, carbocyclic nucleotide; 5'-amino-alkyl phosphate; 1,3-diamino-2-propyl phosphate, 3-aminopropyl phosphate; 6-aminoethyl phosphate; 1,2-aminododecyl phosphate; hydroxypropyl phosphate; 1,5-anhydrohexitol nucleotide; L-nucleotide; alpha-nucleotide; modified base nucleotide; phosphorodithioate; *threo*-pentofuransyl nucleotide; acyclic 3',4'-seco nucleotide; 3,4-dihydroxybutyl nucleotide; 3,5-dihydroxypentyl nucleotide, 5'-5'-inverted nucleotide moiety; 5'-5'-inverted abasic moiety; 5'-phosphoramidate; 5'-phosphorothioate; 1,4-butanediol phosphate; 5'-amino; bridging

and/or non-bridging 5'-phosphoramidate, phosphorothioate and/or phosphorodithioate, bridging or non bridging methylphosphonate and 5'-mercapto moieties (see Beaucage and Iyer, 1993, *Tetrahedron* 49, 1925; incorporated by reference herein).

An "alkyl" group refers to a saturated aliphatic hydrocarbon, including straight-chain, branched-chain, and cyclic alkyl groups. The alkyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention, the alkyl group is a lower alkyl of from 1 to 7 carbons. In another embodiment the alkyl group is 1 to 4 carbons. The alkyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be hydroxyl, cyano, alkoxy, =O, =S, NO<sub>2</sub> or N(CH<sub>3</sub>)<sub>2</sub>, amino, or SH. The term also includes alkenyl groups which are unsaturated hydrocarbon groups containing at least one carbon-carbon double bond, including straight-chain, branched-chain, and cyclic groups. The alkenyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention the alkenyl group can be a lower alkenyl of from 1 to 7 carbons. In another embodiment the alkenyl group can be 1 to 4 carbons. The alkenyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be, for example, hydroxyl, cyano, alkoxy, =O, =S, NO<sub>2</sub>, halogen, N(CH<sub>3</sub>)<sub>2</sub>, amino, or SH. The term "alkyl" also includes alkynyl groups which have an unsaturated hydrocarbon group containing at least one carbon-carbon triple bond, including straight-chain, branched-chain, and cyclic groups. , The alkynyl group can have, for example, 1 to 12 carbons. In one embodiment of the invention, the alkynyl group is a lower alkynyl of from 1 to 7 carbons. In another embodiment of the invention, the alkynyl group is 1 to 4 carbons. The alkynyl group can be substituted or unsubstituted. When substituted the substituted group(s) can be, for example, hydroxyl, cyano, alkoxy, =O, =S, NO<sub>2</sub> or N(CH<sub>3</sub>)<sub>2</sub>, amino or SH.

Such alkyl groups can also include aryl, alkylaryl, carbocyclic aryl, heterocyclic aryl, amide and ester groups. An "aryl" group refers to an aromatic group that has at least one ring having a conjugated p electron system and includes carbocyclic aryl, heterocyclic aryl and biaryl groups, all of that can be optionally substituted. The preferred substituent(s) of aryl groups are halogen, trihalomethyl, hydroxyl, SH, OH, cyano, alkoxy, alkyl, alkenyl, alkynyl, and amino groups. An "alkylaryl" group refers to an alkyl group (as described above) covalently joined to an aryl group (as described above). Carbocyclic aryl groups are groups wherein the ring atoms on the aromatic ring are all carbon atoms. The carbon atoms are optionally substituted. Heterocyclic aryl groups are groups having from 1 to 3 heteroatoms as ring atoms in the aromatic ring and the remainder of the ring atoms are carbon atoms. Suitable heteroatoms include oxygen, sulfur, and nitrogen, and include furanyl, thienyl, pyridyl, pyrrolyl, N-lower alkyl pyrrolo, pyrimidyl, pyrazinyl, imidazolyl and the like, all optionally substituted. An "amide" refers to an -C(O)-NH-R, where R is either alkyl, aryl,

alkylaryl or hydrogen. An "ester" refers to an  $-C(O)-OR'$ , where R is either alkyl, aryl, alkylaryl or hydrogen.

By "nucleotide" is meant a heterocyclic nitrogenous base in N-glycosidic linkage with a phosphorylated sugar. Nucleotides are recognized in the art to include natural bases (standard), and modified bases well known in the art. Such bases are generally located at the 1' position of a nucleotide sugar moiety. Nucleotides generally comprise a base, sugar and a phosphate group. The nucleotides can be unmodified or modified at the sugar, phosphate and/or base moiety, (also referred to interchangeably as nucleotide analogs, modified nucleotides, non-natural nucleotides, non-standard nucleotides and other; see for example, Usman and McSwiggen, *supra*; Eckstein *et al.*, International PCT Publication No. WO 92/07065; Usman *et al.*, International PCT Publication No. WO 93/15187; Uhlman & Peyman, *supra* all are hereby incorporated by reference herein). There are several examples of modified nucleic acid bases known in the art as summarized by Limbach *et al.*, 1994, Nucleic Acids Res. 22, 2183. Some of the non-limiting examples of chemically modified and other natural nucleic acid bases that can be introduced into nucleic acids include, for example, inosine, purine, pyridin-4-one, pyridin-2-one, phenyl, pseudouracil, 2, 4, 6-trimethoxy benzene, 3-methyl uracil, dihydrouridine, naphthyl, aminophenyl, 5-alkylcytidines (e.g., 5-methylcytidine), 5-alkyluridines (e.g., ribothymidine), 5-halouridine (e.g., 5-bromouridine) or 6-azapyrimidines or 6-alkylpyrimidines (e.g. 6-methyluridine), propyne, quesosine, 2-thiouridine, 4-thiouridine, wybutosine, wybutoxosine, 4-acetylcytidine, 5-(carboxyhydroxymethyl)uridine, 5'-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluridine, beta-D-galactosylqueosine, 1-methyladenosine, 1-methylinosine, 2,2-dimethylguanosine, 3-methylcytidine, 2-methyladenosine, 2-methylguanosine, N6-methyladenosine, 7-methylguanosine, 5-methoxyaminomethyl-2-thiouridine, 5-methylaminomethyluridine, 5-methylcarbonylmethyluridine, 5-methoxyuridine, 5-methyl-2-thiouridine, 2-methylthio-N6-isopentenyladenosine, beta-D-mannosylqueosine, uridine-5-oxyacetic acid, 2-thiocytidine, threonine derivatives and others (Burgin *et al.*, 1996, Biochemistry, 35, 14090; Uhlman & Peyman, *supra*). By "modified bases" in this aspect is meant nucleotide bases other than adenine, guanine, cytosine and uracil at 1' position or their equivalents; such bases can be used at any position, for example, within the catalytic core of an enzymatic nucleic acid molecule and/or in the substrate-binding regions of the nucleic acid molecule.

By "nucleoside" is meant a heterocyclic nitrogenous base in N-glycosidic linkage with a sugar. Nucleosides are recognized in the art to include natural bases (standard), and modified bases well known in the art. Such bases are generally located at the 1' position of a nucleoside sugar moiety. Nucleosides generally comprise a base and sugar group. The nucleosides can be unmodified or modified at the sugar, and/or base moiety, (also referred to

interchangeably as nucleoside analogs, modified nucleosides, non-natural nucleosides, non-standard nucleosides and other; see for example, Usman and McSwiggen, *supra*; Eckstein *et al.*, International PCT Publication No. WO 92/07065; Usman *et al.*, International PCT Publication No. WO 93/15187; Uhlman & Peyman, *supra* all are hereby incorporated by reference herein). There are several examples of modified nucleic acid bases known in the art as summarized by Limbach *et al.*, 1994, Nucleic Acids Res. 22, 2183. Some of the non-limiting examples of chemically modified and other natural nucleic acid bases that can be introduced into nucleic acids include, inosine, purine, pyridin-4-one, pyridin-2-one, phenyl, pseudouracil, 2, 4, 6-trimethoxy benzene, 3-methyl uracil, dihydrouridine, naphthyl, aminophenyl, 5-alkylcytidines (e.g., 5-methylcytidine), 5-alkyluridines (e.g., ribothymidine), 5-halouridine (e.g., 5-bromouridine) or 6-azapyrimidines or 6-alkylpyrimidines (e.g. 6-methyluridine), propyne, quinosine, 2-thiouridine, 4-thiouridine, wybutosine, wybutoxosine, 4-acetylcytidine, 5-(carboxyhydroxymethyl)uridine, 5'-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluridine, beta-D-galactosylqueosine, 1-methyladenosine, 1-methylinosine, 2,2-dimethylguanosine, 3-methylcytidine, 2-methyladenosine, 2-methylguanosine, N6-methyladenosine, 7-methylguanosine, 5-methoxyaminomethyl-2-thiouridine, 5-methylaminomethyluridine, 5-methylcarbonylmethyluridine, 5-methyloxyuridine, 5-methyl-2-thiouridine, 2-methylthio-N6-isopentenyladenosine, beta-D-mannosylqueosine, uridine-5-oxyacetic acid, 2-thiocytidine, threonine derivatives and others (Burgin *et al.*, 1996, Biochemistry, 35, 14090; Uhlman & Peyman, *supra*). By "modified bases" in this aspect is meant nucleoside bases other than adenine, guanine, cytosine and uracil at 1' position or their equivalents; such bases can be used at any position, for example, within the catalytic core of an enzymatic nucleic acid molecule and/or in the substrate-binding regions of the nucleic acid molecule.

By "abasic" or "abasic nucleotide" is meant sugar moieties lacking a base or having other chemical groups in place of a base at the 1' position, (for more details see Wincott *et al.*, International PCT publication No. WO 97/26270).

By "unmodified nucleoside" is meant one of the bases adenine, cytosine, guanine, thymine, uracil joined to the 1' carbon of  $\beta$ -D-ribo-furanose.

By "modified nucleoside" is meant any nucleoside base that contains a modification in the chemical structure of an unmodified nucleoside base or sugar.

By "modified nucleotide" is meant any nucleoside base that contains a modification in the chemical structure of an unmodified nucleoside base, sugar and/or phosphate.

By "consists essentially of" is meant that the active nucleic acid molecule of the invention, for example, an enzymatic nucleic acid molecule, contains an enzymatic center or core equivalent to those in the examples, and binding arms able to bind RNA such that cleavage at the target site occurs. Other sequences can be present that do not interfere with such cleavage. Thus, a core region can, for example, include one or more loop, stem-loop structure, or linker that does not prevent enzymatic activity. Thus, the underlined regions in the sequences in **Tables III, IV, VIII and IX** can be such a loop, stem-loop, nucleotide linker, and/or non-nucleotide linker and can be represented generally as sequence "X". For example, a core sequence for a hammerhead enzymatic nucleic acid can comprise a conserved sequence, such as 5'-CUGAUGAG-3' and 5'-CGAA-3' connected by "X", where X is 5'-GCCGUUAGGC-3' (SEQ ID NO 37055), or any other Stem II region known in the art, or a nucleotide and/or non-nucleotide linker. Similarly, for other nucleic acid molecules of the instant invention, such as Inozyme, G-cleaver, amberzyme, zinzyme, DNzyme, antisense, 2-5A antisense, triplex forming nucleic acid, and decoy nucleic acids, other sequences or non-nucleotide linkers can be present that do not interfere with the function of the nucleic acid molecule.

Sequence X can be a linker of  $\geq 2$  nucleotides in length, for example 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 26, 30, where the nucleotides can be internally base-paired to form a stem of about  $\geq 2$  base pairs. Alternatively or in addition, sequence X can be a non-nucleotide linker. In yet another embodiment, the nucleotide linker X can be a nucleic acid aptamer, such as an ATP aptamer, HIV Rev aptamer (RRE), HIV Tat aptamer (TAR) and others (for a review see Gold *et al.*, 1995, *Annu. Rev. Biochem.*, 64, 763; and Szostak & Ellington, 1993, in *The RNA World*, ed. Gesteland and Atkins, pp. 511, CSH Laboratory Press). A "nucleic acid aptamer" as used herein is meant to indicate a nucleic acid sequence capable of interacting with a ligand. The ligand can be any natural or a synthetic molecule, including but not limited to a resin, metabolites, nucleosides, nucleotides, drugs, toxins, transition state analogs, peptides, lipids, proteins, amino acids, nucleic acid molecules, hormones, carbohydrates, receptors, cells, viruses, bacteria and others.

In yet another embodiment, the non-nucleotide linker X is as defined herein. The term "non-nucleotide" as used herein include either abasic nucleotide, polyether, polyamine, polyamide, peptide, carbohydrate, lipid, or polyhydrocarbon compounds. Specific examples include those described by Seela and Kaiser, *Nucleic Acids Res.* 1990, 18:6353 and *Nucleic Acids Res.* 1987, 15:3113; Cload and Schepartz, *J. Am. Chem. Soc.* 1991, 113:6324; Richardson and Schepartz, *J. Am. Chem. Soc.* 1991, 113:5109; Ma *et al.*, *Nucleic Acids Res.* 1993, 21:2585 and *Biochemistry* 1993, 32:1751; Durand *et al.*, *Nucleic Acids Res.* 1990, 18:6353; McCurdy *et al.*, *Nucleosides & Nucleotides* 1991, 10:287; Jsckke *et al.*, *Tetrahedron Lett.* 1993, 34:301; Ono *et al.*, *Biochemistry* 1991, 30:9914; Arnold *et al.*,

International Publication No. WO 89/02439; Usman *et al.*, International Publication No. WO 95/06731; Dudycz *et al.*, International Publication No. WO 95/11910 and Ferentz and Verdine, *J. Am. Chem. Soc.* 1991, 113:4000, all hereby incorporated by reference herein. A "non-nucleotide" further means any group or compound that can be incorporated into a nucleic acid chain in the place of one or more nucleotide units, including either sugar and/or phosphate substitutions, and allows the remaining bases to exhibit their enzymatic activity. The group or compound can be abasic in that it does not contain a commonly recognized nucleotide base, such as adenosine, guanine, cytosine, uracil or thymine. Thus, in one embodiment, the invention features an enzymatic nucleic acid molecule having one or more non-nucleotide moieties, and having enzymatic activity to cleave an RNA or DNA molecule.

#### Enzymatic Nucleic Acid Molecules

There are several known classes of enzymatic nucleic acid molecules capable of cleaving target RNA. In addition, several *in vitro* selection (evolution) strategies (Orgel, 1979, *Proc. R. Soc. London*, B 205, 435) have been used to evolve new nucleic acid catalysts capable of catalyzing cleavage and ligation of phosphodiester linkages (Joyce, 1989, *Gene*, 82, 83-87; Beaudry *et al.*, 1992, *Science* 257, 635-641; Joyce, 1992, *Scientific American* 267, 90-97; Breaker *et al.*, 1994, *TIBTECH* 12, 268; Bartel *et al.*, 1993, *Science* 261:1411-1418; Szostak, 1993, *TIBS* 17, 89-93; Kumar *et al.*, 1995, *FASEB J.*, 9, 1183; Breaker, 1996, *Curr. Op. Biotech.*, 7, 442; Santoro *et al.*, 1997, *Proc. Natl. Acad. Sci.*, 94, 4262; Tang *et al.*, 1997, *RNA* 3, 914; Nakacane & Eckstein, 1994, *supra*; Long & Uhlenbeck, 1994, *supra*; Ishizaka *et al.*, 1995, *supra*; Vaish *et al.*, 1997, *Biochemistry* 36, 6495; all of these are incorporated by reference herein). Each can catalyze a series of reactions including the hydrolysis of phosphodiester bonds in *trans* (and thus can cleave other RNA molecules) under physiological conditions. Table I summarizes some of the characteristics of some of these enzymatic nucleic acids. In general, enzymatic nucleic acids act by first binding to a target RNA. Such binding occurs through the target binding portion of an enzymatic nucleic acid that is held in close proximity to an enzymatic portion of the molecule that acts to cleave the target RNA. Thus, the enzymatic nucleic acid first recognizes and then binds a target RNA through complementary base-pairing, and once bound to the correct site, acts enzymatically to cut the target RNA. Strategic cleavage of such a target RNA will destroy its ability to direct synthesis of an encoded protein. After an enzymatic nucleic acid has bound and cleaved its RNA target, it is released from that RNA to search for another target and can repeatedly bind and cleave new targets.

The enzymatic nature of an enzymatic nucleic acid is advantageous over other technologies, since the concentration of enzymatic nucleic acid necessary to affect a therapeutic treatment is lower. This advantage reflects the ability of the enzymatic nucleic acid to act enzymatically. Thus, a single enzymatic nucleic acid molecule is able to cleave many molecules of target RNA. In addition, the enzymatic nucleic acid is a highly specific inhibitor, with the specificity of inhibition depending not only on the base-pairing mechanism of binding to the target RNA, but also on the mechanism of target RNA cleavage. Single mismatches, or base-substitutions, near the site of cleavage can be chosen to completely eliminate catalytic activity of an enzymatic nucleic acid.

Nucleic acid molecules having an endonuclease enzymatic activity are able to repeatedly cleave other separate RNA molecules in a nucleotide base sequence-specific manner. With proper design and construction, such enzymatic nucleic acid molecules can be targeted to any RNA transcript, and efficient cleavage achieved *in vitro* (Zaug *et al.*, 324, *Nature* 429 1986 ; Uhlenbeck, 1987 *Nature* 328, 596; Kim *et al.*, 84 *Proc. Natl. Acad. Sci. USA* 8788, 1987; Dreyfus, 1988, *Einstein Quart. J. Bio. Med.*, 6, 92; Haseloff and Gerlach, 334 *Nature* 585, 1988; Cech, 260 *JAMA* 3030, 1988; and Jefferies *et al.*, 17 *Nucleic Acids Research* 1371, 1989; Chartrand *et al.*, 1995, *Nucleic Acids Research* 23, 4092; Santoro *et al.*, 1997, *PNAS* 94, 4262).

Because of their sequence-specificity, *trans*-cleaving enzymatic nucleic acid molecules show promise as therapeutic agents for human disease (Usman & McSwiggen, 1995 *Ann. Rep. Med. Chem.* 30, 285-294; Christoffersen and Marr, 1995 *J. Med. Chem.* 38, 2023-2037). Enzymatic nucleic acid molecules can be designed to cleave specific RNA targets within the background of cellular RNA. Such a cleavage event renders the RNA non-functional and abrogates protein expression from that RNA. In this manner, synthesis of a protein associated with a disease state can be selectively inhibited.

Enzymatic nucleic acid molecules that cleave the specified sites in WNV-specific RNAs represent a novel therapeutic approach to treat WNV infection, pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, cirrhosis, and/or other disease states associated with WNV infection. The enzymatic nucleic acid molecules of the present invention can modulate, for example, down-regulate the activity of WNV via their catalytic activity. Those of ordinary skill in the art would realize that other enzymatic nucleic acid molecules that cleave WNV

RNAs can be designed using the techniques and other teachings described herein and thus are within the scope of the invention.

In one embodiment, the invention features the use of an enzymatic nucleic acid molecule, which can be in the hammerhead, NCH (Inozyme), G-cleaver, amberzyme, zinzyme and/or DNAzyme motif, to modulate the expression of a WNV gene or genes. In one particular embodiment, the enzymatic nucleic acid molecule is used to down-regulate the expression of a WNV gene or genes.

In one of the preferred embodiments of the inventions described herein, the enzymatic nucleic acid molecule is formed in a hammerhead or hairpin motif, but can also be formed in the motif of a hepatitis delta virus, group I intron, group II intron or RNase P RNA (in association with an RNA guide sequence), DNAzymes, NCH cleaving motifs (inozymes), or G-cleavers. Examples of such hammerhead motifs (Figure 1a) are described in Dreyfus, *supra*, Rossi *et al.*, 1992, *AIDS Research and Human Retroviruses* 8, 183. Examples of hairpin motifs are described in Hampel *et al.*, EP0360257, Hampel and Tritz, 1989 *Biochemistry* 28, 4929, Feldstein *et al.*, 1989, *Gene* 82, 53, Haseloff and Gerlach, 1989, *Gene*, 82, 43, Hampel *et al.*, 1990 *Nucleic Acids Res.* 18, 299; Chowrira & McSwiggen, US. Patent No. 5,631,359. The hepatitis delta virus motif is generally described in Perrotta and Been, 1992 *Biochemistry* 31, 16. The RNase P motif is generally described in Guerrier-Takada *et al.*, 1983 *Cell* 35, 849; Forster and Altman, 1990, *Science* 249, 783; Li and Altman, 1996, *Nucleic Acids Res.* 24, 835. Examples of group II introns are generally described in Griffin *et al.*, 1995, *Chem. Biol.* 2, 761; Michels and Pyle, 1995, *Biochemistry* 34, 2965; Pyle *et al.*, International PCT Publication No. WO 96/22689. The Group I intron is generally described in Cech *et al.*, U.S. Patent 4,987,071. DNAzymes (Figure 4) are generally described in Usman *et al.*, International PCT Publication No. WO 95/11304; Chartrand *et al.*, 1995, *NAR* 23, 4092; Breaker *et al.*, 1995, *Chem. Bio.* 2, 655; Santoro *et al.*, 1997, *PNAS* 94, 4262; Breaker, 1999, *Nature Biotechnology*, 17, 422-423; Santoro *et al.*, 2000, *J. Am. Chem. Soc.*, 122, 2433-39. NCH cleaving motifs (Figure 1b) are generally described in Ludwig & Sproat, International PCT Publication No. WO 98/58058; and G-cleavers (Figure 1c) are generally described in Kore *et al.*, 1998, *Nucleic Acids Research* 26, 4116-4120 and Eckstein *et al.*, International PCT Publication No. WO 99/16871. Additional motifs contemplated by the instant invention include the Allozyme (Breaker *et al.*, WO 98/43993, Shih *et al.*, U.S. Patent 5,589,332, George *et al.*, U.S. Patent 5,741,679), Amberzyme (Figure 2, Class I motif in Beigelman *et al.*, International PCT publication No. WO 99/55857) and Zinzyme (Figure 3, Class II motif in Beigelman *et al.*, International PCT publication No. WO 99/55857), all these references are incorporated by reference herein in their totalities, including drawings and can also be used in the present invention. These specific motifs are not limiting in the invention. Those skilled in the art will recognize that all that is important is that the

enzymatic molecule have a specific substrate binding site that is complementary to one or more of the target gene RNA regions, and that it have nucleotide sequences within or surrounding that substrate binding site that impart an RNA cleaving activity to the molecule (Cech *et al.*, U.S. Patent No. 4,987,071).

Enzymatic nucleic acid molecules of the invention that are allosterically regulated ("allozymes") can be used to modulate, for example down-regulate, WNV expression. These allosteric enzymatic nucleic acids or allozymes (see for example George *et al.*, US Patent Nos. 5,834,186 and 5,741,679, Shih *et al.*, US Patent No. 5,589,332, Nathan *et al.*, US Patent No 5,871,914, Nathan and Ellington, International PCT publication No. WO 00/24931, Breaker *et al.*, International PCT Publication Nos. WO 00/26226 and 98/27104, and Sullenger *et al.*, International PCT publication No. WO 99/29842) are designed to respond to a signaling agent, for example a WNV proteins, WNV RNA, other proteins and/or RNAs involved in WNV activity, compounds, metals, polymers, molecules and/or drugs that are targeted to WNV infected cells etc., that in turn modulates the activity of the enzymatic nucleic acid molecule. In response to interaction with a predetermined signaling agent, the activity of the allosteric enzymatic nucleic acid is activated or inhibited such that the expression of a particular target is selectively modulated. The target can comprise WNV proteins, WNV RNA, and/or a predetermined cellular component that modulates WNV activity. In a specific example, allosteric enzymatic nucleic acid molecules that are activated by interaction with an RNA encoding a WNV protein are used as therapeutic agents *in vivo* to down-regulate WNV expression. The presence of the WNV RNA activates the allosteric enzymatic nucleic acid molecule, which subsequently cleaves the WNV RNA resulting in the inhibition of WNV protein expression. In this manner, cells that express the WNV protein are selectively targeted.

In another non-limiting example, an allozyme can be activated by a WNV protein, peptide, or mutant polypeptide that cause the allozyme to inhibit the expression of WNV genes, by, for example, cleaving RNA encoded by the WNV gene. In this non-limiting example, the allozyme acts as a decoy to inhibit the function of WNV and also inhibit the expression of WNV once activated by the WNV protein.

#### Target sites

Targets for useful nucleic acid molecules can be determined as disclosed in Draper *et al.*, WO 93/23569; Sullivan *et al.*, WO 93/23057; Thompson *et al.*, WO 94/02595; Draper *et al.*, WO 95/04818; McSwiggen *et al.*, US Patent No. 5,525,468 and hereby incorporated by reference herein in totality. Rather than repeat the guidance provided in those documents here, below are provided specific examples of such methods, not limiting to those in the art.

Nucleic acid molecules to such targets are designed as described in those applications and synthesized for testing *in vitro* and *in vivo*, as also described. Such nucleic acid molecules can also be optimized and delivered as described therein.

The sequence of WNV RNAs were screened for optimal nucleic acid target sites using a computer folding algorithm. Enzymatic nucleic acid cleavage sites were identified. These sites are shown in **Tables III-XIII** (All sequences are 5' to 3' in the tables, underlined regions can be any sequence "X" or linker X, the actual sequence is not relevant). The nucleotide base position is noted in the tables as that site designed for cleavage by the designated type of enzymatic nucleic acid. The nucleotide base position is noted in the tables as that site designed for cleavage by the designated type of enzymatic nucleic acid molecules.

Because WNV RNAs are highly homologous in certain regions, for example, the 3'-UTR, nucleic acid molecule target sites in such regions are also homologous. In such instances, a specific nucleic acid molecule can target different classes sub-types, and variants of WNV RNA. The advantage of a nucleic acid molecule that targets several classes, sub-types or variants of WNV RNA is clear, especially in cases where one or more of these RNAs contribute to the disease state.

Enzymatic nucleic acid molecules were designed that could bind to target sequences and were individually analyzed by computer folding (Jaeger *et al.*, 1989 *Proc. Natl. Acad. Sci. USA*, 86, 7706) to assess whether the enzymatic nucleic acid sequences fold into the appropriate secondary structure. Those enzymatic nucleic acid molecules with unfavorable intramolecular interactions between the binding arms and the catalytic core are eliminated from consideration. Varying binding arm lengths can be chosen to optimize activity. Generally, at least 5 bases on each arm are able to bind to, or otherwise interact with, the target RNA. Enzymatic nucleic acid molecules of the different motifs were designed to anneal to various sites in the mRNA message. The binding arms are complementary to the target site sequences described above.

#### Synthesis of Nucleic Acid Molecules

Synthesis of nucleic acids greater than 100 nucleotides in length is difficult using automated methods, and the therapeutic cost of such molecules is prohibitive. In this invention, small nucleic acid motifs ("small" refers to nucleic acid motifs less than about 100 nucleotides in length, and in one embodiment, less than about 80 nucleotides in length, and in

another embodiment, less than about 50 nucleotides in length; e.g., antisense oligonucleotides, hammerhead or the NCH ribozymes) can be used for exogenous delivery. The simple structure of these molecules increases the ability of the nucleic acid to invade targeted regions of RNA structure. Exemplary molecules of the instant invention are chemically synthesized, and others can similarly be synthesized.

Oligonucleotides (e.g., antisense GeneBlocs) are synthesized using protocols known in the art, for example, as described in Caruthers *et al.*, 1992, *Methods in Enzymology* 211, 3-19, Thompson *et al.*, International PCT Publication No. WO 99/54459, Wincott *et al.*, 1995, *Nucleic Acids Res.* 23, 2677-2684, Wincott *et al.*, 1997, *Methods Mol. Bio.*, 74, 59, Brennan *et al.*, 1998, *Biotechnol Bioeng.*, 61, 33-45, and Brennan, US patent No. 6,001,311. All of these references are incorporated herein by reference. The synthesis of oligonucleotides makes use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. In a non-limiting example, small scale syntheses are conducted on a 394 Applied Biosystems, Inc. synthesizer using a 0.2  $\mu$ mol scale protocol with a 2.5 min coupling step for 2'-O-methylated nucleotides and a 45 sec coupling step for 2'-deoxy nucleotides. Table II outlines the amounts and the contact times of the reagents used in the synthesis cycle. Alternatively, syntheses at the 0.2  $\mu$ mol scale can be performed on a 96-well plate synthesizer, such as the instrument produced by Protogene (Palo Alto, CA) with minimal modification to the cycle. A 33-fold excess (60  $\mu$ L of 0.11 M = 6.6  $\mu$ mol) of 2'-O-methyl phosphoramidite and a 105-fold excess of S-ethyl tetrazole (60  $\mu$ L of 0.25 M = 15  $\mu$ mol) can be used in each coupling cycle of 2'-O-methyl residues relative to polymer-bound 5'-hydroxyl. A 22-fold excess (40  $\mu$ L of 0.11 M = 4.4  $\mu$ mol) of deoxy phosphoramidite and a 70-fold excess of S-ethyl tetrazole (40  $\mu$ L of 0.25 M = 10  $\mu$ mol) can be used in each coupling cycle of deoxy residues relative to polymer-bound 5'-hydroxyl. Average coupling yields on the 394 Applied Biosystems, Inc. synthesizer, determined by colorimetric quantitation of the trityl fractions, are typically 97.5-99%. Other oligonucleotide synthesis reagents for the 394 Applied Biosystems, Inc. synthesizer include; detritylation solution is 3% TCA in methylene chloride (ABI); capping is performed with 16% *N*-methyl imidazole in THF (ABI) and 10% acetic anhydride/10% 2,6-lutidine in THF (ABI); and oxidation solution is 16.9 mM I<sub>2</sub>, 49 mM pyridine, 9% water in THF (PERSEPTIVE™). Burdick & Jackson Synthesis Grade acetonitrile is used directly from the reagent bottle. S-Ethyltetrazole solution (0.25 M in acetonitrile) is made up from the solid obtained from American International Chemical, Inc. Alternately, for the introduction of phosphorothioate linkages, Beaucage reagent (3H-1,2-Benzodithiol-3-one 1,1-dioxide, 0.05 M in acetonitrile) is used.

Deprotection of the antisense oligonucleotides is performed as follows: the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and

suspended in a solution of 40% aq. methylamine (1 mL) at 65 °C for 10 min. After cooling to -20 °C, the supernatant is removed from the polymer support. The support is washed three times with 1.0 mL of EtOH:MeCN:H<sub>2</sub>O/3:1:1, vortexed and the supernatant is then added to the first supernatant. The combined supernatants, containing the oligoribonucleotide, are dried to a white powder.

The method of synthesis used for normal RNA including certain enzymatic nucleic acid molecules follows the procedure as described in Usman *et al.*, 1987, *J. Am. Chem. Soc.*, 109, 7845; Scaringe *et al.*, 1990, *Nucleic Acids Res.*, 18, 5433; and Wincott *et al.*, 1995, *Nucleic Acids Res.* 23, 2677-2684 Wincott *et al.*, 1997, *Methods Mol. Bio.*, 74, 59, and makes use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. In a non-limiting example, small scale syntheses are conducted on a 394 Applied Biosystems, Inc. synthesizer using a 0.2 µmol scale protocol with a 7.5 min coupling step for alkylsilyl protected nucleotides and a 2.5 min coupling step for 2'-O-methylated nucleotides. Table II outlines the amounts and the contact times of the reagents used in the synthesis cycle. Alternatively, syntheses at the 0.2 µmol scale can be done on a 96-well plate synthesizer, such as the instrument produced by Protogene (Palo Alto, CA) with minimal modification to the cycle. A 33-fold excess (60 µL of 0.11 M = 6.6 µmol) of 2'-O-methyl phosphoramidite and a 75-fold excess of S-ethyl tetrazole (60 µL of 0.25 M = 15 µmol) can be used in each coupling cycle of 2'-O-methyl residues relative to polymer-bound 5'-hydroxyl. A 66-fold excess (120 µL of 0.11 M = 13.2 µmol) of alkylsilyl (ribo) protected phosphoramidite and a 150-fold excess of S-ethyl tetrazole (120 µL of 0.25 M = 30 µmol) can be used in each coupling cycle of ribo residues relative to polymer-bound 5'-hydroxyl. Average coupling yields on the 394 Applied Biosystems, Inc. synthesizer, determined by colorimetric quantitation of the trityl fractions, are typically 97.5-99%. Other oligonucleotide synthesis reagents for the 394 Applied Biosystems, Inc. synthesizer include; detritylation solution is 3% TCA in methylene chloride (ABI); capping is performed with 16% *N*-methyl imidazole in THF (ABI) and 10% acetic anhydride/10% 2,6-lutidine in THF (ABI); oxidation solution is 16.9 mM I<sub>2</sub>, 49 mM pyridine, 9% water in THF (PERSEPTIVE™). Burdick & Jackson Synthesis Grade acetonitrile is used directly from the reagent bottle. S-Ethyltetrazole solution (0.25 M in acetonitrile) is made up from the solid obtained from American International Chemical, Inc. Alternately, for the introduction of phosphorothioate linkages, Beaucage reagent (3H-1,2-Benzodithiol-3-one 1,1-dioxide 0.05 M in acetonitrile) is used.

Deprotection of the RNA is performed using either a two-pot or one-pot protocol. For the two-pot protocol, the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 40% aq. methylamine (1 mL) at 65 °C for 10 min. After cooling to -20 °C, the supernatant is removed from the polymer support. The

support is washed three times with 1.0 mL of EtOH:MeCN:H<sub>2</sub>O/3:1:1, vortexed and the supernatant is then added to the first supernatant. The combined supernatants, containing the oligoribonucleotide, are dried to a white powder. The base deprotected oligoribonucleotide is resuspended in anhydrous TEA/HF/NMP solution (300  $\mu$ L of a solution of 1.5 mL N-methylpyrrolidinone, 750  $\mu$ L TEA and 1 mL TEA $\cdot$ 3HF to provide a 1.4 M HF concentration) and heated to 65 °C. After 1.5 h, the oligomer is quenched with 1.5 M NH<sub>4</sub>HCO<sub>3</sub>.

Alternatively, for the one-pot protocol, the polymer-bound trityl-on oligoribonucleotide is transferred to a 4 mL glass screw top vial and suspended in a solution of 33% ethanolic methylamine/DMSO: 1/1 (0.8 mL) at 65 °C for 15 min. The vial is brought to r.t. TEA $\cdot$ 3HF (0.1 mL) is added and the vial is heated at 65 °C for 15 min. The sample is cooled at -20 °C and then quenched with 1.5 M NH<sub>4</sub>HCO<sub>3</sub>.

For purification of the trityl-on oligomers, the quenched NH<sub>4</sub>HCO<sub>3</sub> solution is loaded onto a C-18 containing cartridge that had been prewashed with acetonitrile followed by 50 mM TEAA. After washing the loaded cartridge with water, the RNA is detritylated with 0.5% TFA for 13 min. The cartridge is then washed again with water, salt exchanged with 1 M NaCl and washed with water again. The oligonucleotide is then eluted with 30% acetonitrile.

Inactive hammerhead ribozymes or binding attenuated control (BAC) oligonucleotides are synthesized by substituting a U for G<sub>5</sub> and a U for A<sub>14</sub> (numbering from Hertel, K. J., *et al.*, 1992, *Nucleic Acids Res.*, 20, 3252). Similarly, one or more nucleotide substitutions can be introduced in other enzymatic nucleic acid molecules to inactivate the molecule and such molecules can serve as a negative control.

The average stepwise coupling yields are typically >98% (Wincott *et al.*, 1995 *Nucleic Acids Res.* 23, 2677-2684). Those of ordinary skill in the art will recognize that the scale of synthesis can be adapted to be larger or smaller than the example described above including but not limited to 96 well format, all that is important is the ratio of chemicals used in the reaction.

Alternatively, the nucleic acid molecules of the present invention can be synthesized separately and joined together post-synthetically, for example by ligation (Moore *et al.*, 1992, *Science* 256, 9923; Draper *et al.*, International PCT publication No. WO 93/23569; Shabarova *et al.*, 1991, *Nucleic Acids Research* 19, 4247; Bellon *et al.*, 1997, *Nucleosides & Nucleotides*, 16, 951; Bellon *et al.*, 1997, *Bioconjugate Chem.* 8, 204).

The nucleic acid molecules of the present invention can be modified extensively to enhance stability by modification with nuclease resistant groups, for example, 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-H (for a review see Usman and Cedergren, 1992, *TIBS* 17, 34;

Usman *et al.*, 1994, *Nucleic Acids Symp. Ser.* 31, 163). Ribozymes are purified by gel electrophoresis using general methods or are purified by high pressure liquid chromatography (HPLC; See Wincott *et al.*, *Supra*, the totality of that reference is incorporated herein by reference) and are re-suspended in water.

The sequences of the enzymatic nucleic acids that are chemically synthesized, are shown in **Tables III to XIII**. Those in the art will recognize that these sequences are representative only of many more such sequences where the enzymatic portion of the enzymatic nucleic acid (all but the binding arms) is altered to affect activity. The enzymatic nucleic acid molecule sequences listed in **Tables III to XIII** can be formed of ribonucleotides or other nucleotides or non-nucleotides. Such nucleic acids with enzymatic activity are equivalent to the enzymatic nucleic acid molecules described specifically in the tables.

Optimizing Activity of the nucleic acid molecules of the invention.

Chemically synthesizing nucleic acid molecules with modifications (base, sugar and/or phosphate) that prevent their degradation by serum ribonucleases, which can increase their potency (see *e.g.*, Eckstein *et al.*, International Publication No. WO 92/07065; Perrault *et al.*, 1990 *Nature* 344, 565; Pieken *et al.*, 1991, *Science* 253, 314; Usman and Cedergren, 1992, *Trends in Biochem. Sci.* 17, 334; Usman *et al.*, International Publication No. WO 93/15187; and Rossi *et al.*, International Publication No. WO 91/03162; Sproat, US Patent No. 5,334,711; and Burgin *et al.*, *supra*; all of which are incorporated by reference herein). All of the above references describe various chemical modifications that can be made to the base, phosphate and/or sugar moieties of the nucleic acid molecules described herein. Modifications that enhance their efficacy in cells, and removal of bases from nucleic acid molecules to shorten oligonucleotide synthesis times and reduce chemical requirements are desired.

There are several examples in the art describing sugar, base and phosphate modifications that can be introduced into nucleic acid molecules with significant enhancement in their nuclease stability and efficacy. For example, oligonucleotides are modified to enhance stability and/or enhance biological activity by modification with nuclease resistant groups, for example, 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-H, nucleotide base modifications (for a review see Usman and Cedergren, 1992, *TIBS*. 17, 34; Usman *et al.*, 1994, *Nucleic Acids Symp. Ser.* 31, 163; Burgin *et al.*, 1996, *Biochemistry*, 35, 14090). Sugar modification of nucleic acid molecules has been extensively described in the art (see Eckstein *et al.*, International Publication PCT No. WO 92/07065; Perrault *et al.*

*Nature*, 1990, 344, 565-568; Pieken *et al.* *Science*, 1991, 253, 314-317; Usman and Cedergren, *Trends in Biochem. Sci.*, 1992, 17, 334-339; Usman *et al.* *International Publication* PCT No. WO 93/15187; Sproat, *US Patent* No. 5,334,711 and Beigelman *et al.*, 1995, *J. Biol. Chem.*, 270, 25702; Beigelman *et al.*, *International PCT publication* No. WO 97/26270; Beigelman *et al.*, *US Patent* No. 5,716,824; Usman *et al.*, *US patent* No. 5,627,053; Woolf *et al.*, *International PCT Publication* No. WO 98/13526; Thompson *et al.*, *USSN* 60/082,404 that was filed on April 20, 1998; Karpeisky *et al.*, 1998, *Tetrahedron Lett.*, 39, 1131; Earnshaw and Gait, 1998, *Biopolymers (Nucleic acid Sciences)*, 48, 39-55; Verma and Eckstein, 1998, *Annu. Rev. Biochem.*, 67, 99-134; and Burlina *et al.*, 1997, *Bioorg. Med. Chem.*, 5, 1999-2010; all of the references are hereby incorporated in their totality by reference herein). Such publications describe general methods and strategies to determine the location of incorporation of sugar, base and/or phosphate modifications and the like into enzymatic nucleic acids without inhibiting catalysis, and are incorporated by reference herein. In view of such teachings, similar modifications can be used as described herein to modify the nucleic acid molecules of the instant invention.

In connection with 2'-modified nucleotides as described for the present invention, by "amino" is meant 2'-NH<sub>2</sub> or 2'-O-NH<sub>2</sub>, that can be modified or unmodified. Such modified groups are described, for example, in Eckstein *et al.*, U.S. Patent 5,672,695 and Matulic-Adamic *et al.*, WO 98/28317, respectively, which are both incorporated by reference in their entireties.

Various modifications to nucleic acid (*e.g.*, antisense and enzymatic nucleic acid) structure can be made to enhance the utility of these molecules. Such modifications will enhance shelf-life, half-life *in vitro*, stability, and ease of introduction of such oligonucleotides to the target site, *e.g.*, to enhance penetration of cellular membranes, and confer the ability to recognize and bind to targeted cells.

While chemical modification of oligonucleotide internucleotide linkages with phosphorothioate, phosphorothioate, and/or 5'-methylphosphonate linkages improves stability, excessive modifications can cause some toxicity. Therefore, when designing nucleic acid molecules, the amount of these internucleotide linkages should be minimized. The reduction in the concentration of these linkages should lower toxicity, resulting in increased efficacy and higher specificity of these molecules.

Nucleic acid molecules having chemical modifications that maintain or enhance activity are provided. Such a nucleic acid is also generally more resistant to nucleases than an unmodified nucleic acid. Accordingly, the *in vitro* and/or *in vivo* activity should not be significantly lowered. In cases in which inhibition is the goal, therapeutic nucleic acid molecules delivered exogenously should optimally be stable within cells until translation of the target RNA has been inhibited long enough to reduce the levels of the undesirable protein. This period of time varies between hours to days depending upon the disease state. Clearly, nucleic acid molecules must be resistant to nucleases in order to function as effective intracellular therapeutic agents. Improvements in the chemical synthesis of RNA and DNA (Wincott *et al.*, 1995 *Nucleic Acids Res.* 23, 2677; Caruthers *et al.*, 1992, *Methods in Enzymology* 211,3-19 (incorporated by reference herein) have expanded the ability to modify nucleic acid molecules by introducing nucleotide modifications to enhance their nuclease stability, as described above.

In one embodiment, nucleic acid molecules of the invention include one or more G-clamp nucleotides. A G-clamp nucleotide is a modified cytosine analog wherein the modifications confer the ability to hydrogen bond both Watson-Crick and Hoogsteen faces of a complementary guanine within a duplex, see for example Lin and Matteucci, 1998, *J. Am. Chem. Soc.*, 120, 8531-8532. A single G-clamp analog substitution within an oligonucleotide can result in substantially enhanced helical thermal stability and mismatch discrimination when hybridized to complementary oligonucleotides. The inclusion of such nucleotides in nucleic acid molecules of the invention results in both enhanced affinity and specificity to nucleic acid targets.

In another embodiment, the invention features conjugates and/or complexes of nucleic acid molecules targeting WNV. Such conjugates and/or complexes can be used to facilitate delivery of molecules into a biological system, such as cells. The conjugates and complexes provided by the instant invention can impart therapeutic activity by transferring therapeutic compounds across cellular membranes, altering the pharmacokinetics, and/or modulating the localization of nucleic acid molecules of the invention. The present invention encompasses the design and synthesis of novel conjugates and complexes for the delivery of molecules, including but not limited to small molecules, lipids, phospholipids, nucleosides, nucleotides, nucleic acids, antibodies, toxins, negatively charged polymers and other polymers, for example proteins, peptides, hormones, carbohydrates, polyethylene glycols, or polyamines, across cellular membranes. In general, the transporters described are designed to be used either individually or as part of a multi-component system, with or without degradable linkers. These compounds are expected to improve delivery and/or localization of nucleic

acid molecules of the invention into a number of cell types originating from different tissues, in the presence or absence of serum (see Sullenger and Cech, US 5,854,038). Conjugates of the molecules described herein can be attached to biologically active molecules via linkers that are biodegradable, such as biodegradable nucleic acid linker molecules.

The term "biodegradable nucleic acid linker molecule" as used herein, refers to a nucleic acid molecule that is designed as a biodegradable linker to connect one molecule to another molecule, for example, a biologically active molecule. The stability of the biodegradable nucleic acid linker molecule can be modulated by using various combinations of ribonucleotides, deoxyribonucleotides, and chemically modified nucleotides, for example, 2'-O-methyl, 2'-fluoro, 2'-amino, 2'-O-amino, 2'-C-allyl, 2'-O-allyl, and other 2'-modified or base modified nucleotides. The biodegradable nucleic acid linker molecule can be a dimer, trimer, tetramer or longer nucleic acid molecule, for example, an oligonucleotide of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 nucleotides in length, or can comprise a single nucleotide with a phosphorus based linkage, for example, a phosphoramidate or phosphodiester linkage. The biodegradable nucleic acid linker molecule can also comprise nucleic acid backbone, nucleic acid sugar, or nucleic acid base modifications.

The term "biodegradable" as used herein, refers to degradation in a biological system, for example enzymatic degradation or chemical degradation.

The term "biologically active molecule" as used herein, refers to compounds or molecules that are capable of eliciting or modifying a biological response in a system. Non-limiting examples of biologically active molecules contemplated by the instant invention include therapeutically active molecules such as antibodies, hormones, antivirals, peptides, proteins, chemotherapeutics, small molecules, vitamins, co-factors, nucleosides, nucleotides, oligonucleotides, enzymatic nucleic acids, antisense nucleic acids, triplex forming oligonucleotides, 2,5-A chimeras, siRNA, dsRNA, allozymes, aptamers, decoys and analogs thereof. Biologically active molecules of the invention also include molecules capable of modulating the pharmacokinetics and/or pharmacodynamics of other biologically active molecules, for example, lipids and polymers such as polyamines, polyamides, polyethylene glycol and other polyethers.

The term "phospholipid" as used herein, refers to a hydrophobic molecule comprising at least one phosphorus group. For example, a phospholipid can comprise a phosphorus containing group and saturated or unsaturated alkyl group, optionally substituted with OH, COOH, oxo, amine, or substituted or unsubstituted aryl groups.

Therapeutic nucleic acid molecules (*e.g.*, enzymatic nucleic acid molecules) delivered exogenously optimally are stable within cells until translation of the target RNA has been inhibited long enough to reduce the levels of the undesirable protein. This period of time varies between hours to days depending upon the disease state. The nucleic acid molecules are resistant to nucleases in order to function as effective intracellular therapeutic agents. Improvements in the chemical synthesis of nucleic acid molecules described in the instant invention and in the art have expanded the ability to modify nucleic acid molecules by introducing nucleotide modifications to enhance their nuclease stability as described above.

In yet another preferred embodiment, nucleic acid catalysts having chemical modifications that maintain or enhance enzymatic activity are provided. Such nucleic acids are also generally more resistant to nucleases than unmodified nucleic acids. Thus, *in vitro* and/or *in vivo* the activity should not be significantly lowered. As exemplified herein, such nucleic acid molecules are useful *in vitro* and/or *in vivo* even if activity over all is reduced 10 fold (Burgin *et al.*, 1996, *Biochemistry*, 35, 14090). Such enzymatic nucleic acid molecules herein are said to "maintain" the enzymatic activity of an all RNA enzymatic nucleic acid molecule.

In a preferred embodiment, the invention features modified nucleic acids with phosphate backbone modifications comprising one or more phosphorothioate, phosphorodithioate, methylphosphonate, morpholino, amidate carbamate, carboxymethyl, acetamidate, polyamide, sulfonate, sulfonamide, sulfamate, formacetal, thioformacetal, and/or alkylsilyl, substitutions. For a review of oligonucleotide backbone modifications see Hunziker and Leumann, 1995, *Nucleic Acid Analogues: Synthesis and Properties*, in *Modern Synthetic Methods*, VCH, 331-417, and Mesmaeker *et al.*, 1994, *Novel Backbone Replacements for Oligonucleotides*, in *Carbohydrate Modifications in Antisense Research*, ACS, 24-39. These references are hereby incorporated by reference herein.

These molecules can improve treatment of the disease by affording the possibility of combination therapies (*e.g.*, multiple nucleic acid molecules targeted to different genes, nucleic acid molecules coupled with known small molecule inhibitors, or intermittent treatment with combinations of nucleic acid molecules (including different enzymatic nucleic acid motifs) and/or other chemical or biological molecules). The treatment of patients with nucleic acid molecules can also include combinations of different types of nucleic acid molecules. Therapies can be devised that include a mixture of enzymatic nucleic acids

(including different enzymatic nucleic acid motifs), antisense and/or 2-5A chimera molecules to one or more targets to alleviate symptoms of a disease.

#### Administration of Nucleic Acid Molecules

Methods for the delivery of nucleic acid molecules are described in Akhtar *et al.*, 1992, *Trends Cell Bio.*, 2, 139; *Delivery Strategies for Antisense Oligonucleotide Therapeutics*, ed. Akhtar, 1995, Maurer *et al.*, 1999, *Mol. Membr. Biol.*, 16, 129-140; Hofland and Huang, 1999, *Handb. Exp. Pharmacol.*, 137, 165-192; and Lee *et al.*, 2000, *ACS Symp. Ser.*, 752, 184-192, all of which are incorporated herein by reference. Sullivan *et al.*, PCT WO 94/02595, further describes the general methods for delivery of enzymatic nucleic acid molecules. These protocols can be utilized for the delivery of virtually any nucleic acid molecule. Nucleic acid molecules can be administered to cells by a variety of methods known to those of skill in the art, including, but not restricted to, encapsulation in liposomes, by iontophoresis, or by incorporation into other vehicles, such as hydrogels, cyclodextrins, biodegradable nanocapsules, and bioadhesive microspheres, or by proteinaceous vectors (O'Hare and Normand, International PCT Publication No. WO 00/53722). Alternatively, the nucleic acid/vehicle combination is locally delivered by direct injection or by use of an infusion pump. Direct injection of the nucleic acid molecules of the invention, whether subcutaneous, intramuscular, or intradermal, can take place using standard needle and syringe methodologies, or by needle-free technologies such as those described in Conry *et al.*, 1999, *Clin. Cancer Res.*, 5, 2330-2337 and Barry *et al.*, International PCT Publication No. WO 99/31262.

Specific methods of delivery that can be utilized for CNS delivery of the nucleic acid molecules of the invention are described in Pardridge, 1999, *Adv. Drug Delivery Rev.*, 36, 299-321 and Boado *et al.*, 1998, *J. Pharm. Sci.*, 87, 1308-1315. Many examples in the art describe CNS delivery methods of oligonucleotides by osmotic pump, (see Chun *et al.*, 1998, *Neuroscience Letters*, 257, 135-138, D'Aldin *et al.*, 1998, *Mol. Brain Research*, 55, 151-164, Dryden *et al.*, 1998, *J. Endocrinol.*, 157, 169-175, Ghirnkar *et al.*, 1998, *Neuroscience Letters*, 247, 21-24) or direct infusion (Broaddus *et al.*, 1997, *Neurosurg. Focus*, 3, article 4). Other routes of delivery include, but are not limited to, oral (tablet or pill form), pulmonary (Patton, 1996, *Adv. Drug Delivery Rev.*, 19, 3-36) and/or intrathecal delivery (Gold, 1997, *Neuroscience*, 76, 1153-1158). For a comprehensive review on drug delivery strategies including broad coverage of CNS delivery, see Jain, *Drug Delivery Systems: Technologies and Commercial Opportunities*, Decision Resources, 1998. More detailed descriptions of nucleic acid delivery and administration are provided in Sullivan *et al.*, supra, Draper *et al.*, PCT WO93/23569, Beigelman *et al.*, PCT WO99/05094, and Klimuk *et al.*, PCT WO99/04819 all of which have been incorporated by reference herein.

The molecules of the instant invention can be used as pharmaceutical agents. Pharmaceutical agents prevent, inhibit the occurrence, or treat (alleviate a symptom to some extent, or all of the symptoms) of a disease state in a patient.

Thus, the invention features a pharmaceutical composition comprising one or more nucleic acid(s) of the invention in an acceptable carrier, such as a stabilizer, buffer, and the like. The negatively charged polynucleotides of the invention can be administered (*e.g.*, RNA, DNA or protein) and introduced into a patient by any standard means, with or without stabilizers, buffers, and the like, to form a pharmaceutical composition. When it is desired to use a lipid or liposome delivery mechanism, standard protocols for formulation can be followed. The compositions of the present invention can also be formulated and used as tablets, capsules or elixirs for oral administration, suppositories for rectal administration, sterile solutions, suspensions for injectable administration; and the like.

The present invention also includes pharmaceutically acceptable formulations of the compounds described. These formulations include salts of the above compounds, *e.g.*, acid addition salts, for example, salts of hydrochloric, hydrobromic, acetic acid, and benzene sulfonic acid.

A pharmacological composition or formulation refers to a composition or formulation in a form suitable for administration, *e.g.*, systemic administration, into a cell or patient, including for example a human. Suitable forms, in part, depend upon the use or the route of entry, for example oral, transdermal, or by injection. Such forms should not prevent the composition or formulation from reaching a target cell (*i.e.*, a cell to which the negatively charged nucleic acid is desirable for delivery). For example, pharmacological compositions injected into the blood stream should be soluble. Other factors are known in the art, and include considerations such as toxicity and forms that prevent the composition or formulation from exerting its effect.

By "systemic administration" is meant *in vivo* systemic absorption or accumulation of drugs in the blood stream followed by distribution throughout the entire body. Administration routes that can lead to systemic absorption include, without limitations: intravenous, subcutaneous, intraperitoneal, inhalation, oral, intrapulmonary and intramuscular. Each of these administration routes expose the desired negatively charged polymers, *e.g.*, nucleic acids, to an accessible diseased tissue. The rate of entry of a drug into

the circulation has been shown as a function of molecular weight or size. The use of a liposome or other drug carrier comprising the compounds of the instant invention can potentially localize the drug, for example, in certain tissue types, such as the tissues of the reticular endothelial system (RES). A liposome formulation that can facilitate the association of drug with the surface of cells, such as, lymphocytes and macrophages is also useful. This approach can provide enhanced delivery of the drug to target cells by taking advantage of the specificity of macrophage and lymphocyte immune recognition of abnormal cells, such as the WNV infected liver cells.

By "pharmaceutically acceptable" formulation is meant, a composition or formulation that allows for the effective distribution of the nucleic acid molecules of the instant invention in the physical location most suitable for their desired activity. Nonlimiting examples of agents suitable for formulation with the nucleic acid molecules of the instant invention include: P-glycoprotein inhibitors (such as Pluronic P85) that can enhance entry of drugs into the CNS (Jolliet-Riant and Tillement, 1999, *Fundam. Clin. Pharmacol.*, 13, 16-26); biodegradable polymers, such as poly (DL-lactide-coglycolide) microspheres for sustained release delivery after intracerebral implantation (Emerich, DF et al, 1999, *Cell Transplant*, 8, 47-58) Alkermes, Inc. Cambridge, MA; and loaded nanoparticles, such as those made of polybutylcyanoacrylate, that can deliver drugs across the blood brain barrier and can alter neuronal uptake mechanisms (*Prog Neuropsychopharmacol Biol Psychiatry*, 23, 941-949, 1999). Other non-limiting examples of CNS delivery strategies for the nucleic acid molecules of the instant invention include material described in Boado et al., 1998, *J. Pharm. Sci.*, 87, 1308-1315; Tyler et al., 1999, *FEBS Lett.*, 421, 280-284; Pardridge et al., 1995, *PNAS USA.*, 92, 5592-5596; Boado, 1995, *Adv. Drug Delivery Rev.*, 15, 73-107; Aldrian-Herrada et al., 1998, *Nucleic Acids Res.*, 26, 4910-4916; and Tyler et al., 1999, *PNAS USA.*, 96, 7053-7058.

The invention also features the use of a composition comprising surface-modified liposomes containing poly (ethylene glycol) lipids (PEG-modified, or long-circulating liposomes or stealth liposomes). These formulations offer an method for increasing the accumulation of drugs in target tissues. This class of drug carriers resists opsonization and elimination by the mononuclear phagocytic system (MPS or RES), thereby enabling longer blood circulation times and enhanced tissue exposure for the encapsulated drug (Lasic *et al. Chem. Rev.* 1995, 95, 2601-2627; Ishiwata *et al.*, *Chem. Pharm. Bull.* 1995, 43, 1005-1011). Such liposomes have been shown to accumulate selectively in tumors, presumably by

extravasation and capture in the neovascularized target tissues (Lasic *et al.*, *Science* 1995, 267, 1275-1276; Oku *et al.*, 1995, *Biochim. Biophys. Acta*, 1238, 86-90). The long-circulating liposomes enhance the pharmacokinetics and pharmacodynamics of DNA and RNA, particularly compared to conventional cationic liposomes that are known to accumulate in tissues of the MPS (Liu *et al.*, *J. Biol. Chem.* 1995, 42, 24864-24870; Choi *et al.*, International PCT Publication No. WO 96/10391; Ansell *et al.*, International PCT Publication No. WO 96/10390; Holland *et al.*, International PCT Publication No. WO 96/10392; all of these are incorporated by reference herein). Long-circulating liposomes are also likely to protect drugs from nuclease degradation to a greater extent compared to cationic liposomes, based on their ability to avoid accumulation in metabolically aggressive MPS tissues such as the liver and spleen. All of these references are incorporated by reference herein.

In addition, other cationic molecules can also be utilized to deliver the molecules of the present invention. For example, nucleic acid molecule can be conjugated to glycosylated poly(L-lysine) that has been shown to enhance localization of antisense oligonucleotides into the liver (Nakazono *et al.*, 1996, *Hepatology* 23, 1297-1303; Nahato *et al.*, 1997, *Biochem Pharm.* 53, 887-895). Glycosylated poly(L-lysine) can be covalently attached to the enzymatic nucleic acid or be bound to enzymatic nucleic acid through electrostatic interaction.

The present invention also includes compositions prepared for storage or administration that include a pharmaceutically effective amount of the desired compounds in a pharmaceutically acceptable carrier or diluent. Acceptable carriers or diluents for therapeutic use are well known in the pharmaceutical art, and are described, for example, in *Remington's Pharmaceutical Sciences*, Mack Publishing Co. (A.R. Gennaro edit. 1985), hereby incorporated by reference herein. For example, preservatives, stabilizers, dyes and flavoring agents can be provided. These include sodium benzoate, sorbic acid and esters of *p*-hydroxybenzoic acid. In addition, antioxidants and suspending agents can be used.

A pharmaceutically effective dose is that dose required to prevent, inhibit the occurrence, or treat (alleviate a symptom to some extent, preferably all of the symptoms) of a disease state. The pharmaceutically effective dose depends on the type of disease, the composition used, the route of administration, the type of mammal being treated, the physical characteristics of the specific mammal under consideration, concurrent medication, and other factors that those skilled in the medical arts will recognize. Generally, an amount between

0.1 mg/kg and 100 mg/kg body weight/day of active ingredients is administered dependent upon potency of the negatively charged polymer.

The nucleic acid molecules of the invention and formulations thereof can be administered orally, topically, parenterally, by inhalation or spray, or rectally in dosage unit formulations containing conventional non-toxic pharmaceutically acceptable carriers, adjuvants and/or vehicles. The term parenteral as used herein includes percutaneous, subcutaneous, intravascular (e.g., intravenous), intramuscular, or intrathecal injection or infusion techniques and the like. In addition, there is provided a pharmaceutical formulation comprising a nucleic acid molecule of the invention and a pharmaceutically acceptable carrier. One or more nucleic acid molecules of the invention can be present in association with one or more non-toxic pharmaceutically acceptable carriers and/or diluents and/or adjuvants, and if desired other active ingredients. The pharmaceutical compositions containing nucleic acid molecules of the invention can be in a form suitable for oral use, for example, as tablets, troches, lozenges, aqueous or oily suspensions, dispersible powders or granules, emulsion, hard or soft capsules, or syrups or elixirs.

Compositions intended for oral use can be prepared according to any method known to the art for the manufacture of pharmaceutical compositions and such compositions can contain one or more such sweetening agents, flavoring agents, coloring agents or preservative agents in order to provide pharmaceutically elegant and palatable preparations. Tablets contain the active ingredient in admixture with non-toxic pharmaceutically acceptable excipients that are suitable for the manufacture of tablets. These excipients can be for example, inert diluents, such as calcium carbonate, sodium carbonate, lactose, calcium phosphate or sodium phosphate; granulating and disintegrating agents, for example, corn starch, or alginic acid; binding agents, for example starch, gelatin or acacia, and lubricating agents, for example magnesium stearate, stearic acid or talc. The tablets can be uncoated or they can be coated by known techniques. In some cases such coatings can be prepared by known techniques to delay disintegration and absorption in the gastrointestinal tract and thereby provide a sustained action over a longer period. For example, a time delay material such as glyceryl monostearate or glyceryl distearate can be employed.

Formulations for oral use can also be presented as hard gelatin capsules wherein the active ingredient is mixed with an inert solid diluent, for example, calcium carbonate, calcium phosphate or kaolin, or as soft gelatin capsules wherein the active ingredient is mixed with water or an oil medium, for example peanut oil, liquid paraffin or olive oil.

Aqueous suspensions contain the active materials in admixture with excipients suitable for the manufacture of aqueous suspensions. Such excipients are suspending agents, for example sodium carboxymethylcellulose, methylcellulose, hydropropyl-methylcellulose,

sodium alginate, polyvinylpyrrolidone, gum tragacanth and gum acacia; dispersing or wetting agents can be a naturally-occurring phosphatide, for example, lecithin, or condensation products of an alkylene oxide with fatty acids, for example polyoxyethylene stearate, or condensation products of ethylene oxide with long chain aliphatic alcohols, for example heptadecaethyleneoxycetanol, or condensation products of ethylene oxide with partial esters derived from fatty acids and a hexitol such as polyoxyethylene sorbitol monooleate, or condensation products of ethylene oxide with partial esters derived from fatty acids and hexitol anhydrides, for example polyethylene sorbitan monooleate. The aqueous suspensions can also contain one or more preservatives, for example ethyl, or n-propyl p-hydroxybenzoate, one or more coloring agents, one or more flavoring agents, and one or more sweetening agents, such as sucrose or saccharin.

Oily suspensions can be formulated by suspending the active ingredients in a vegetable oil, for example arachis oil, olive oil, sesame oil or coconut oil, or in a mineral oil such as liquid paraffin. The oily suspensions can contain a thickening agent, for example beeswax, hard paraffin or cetyl alcohol. Sweetening agents and flavoring agents can be added to provide palatable oral preparations. These compositions can be preserved by the addition of an anti-oxidant such as ascorbic acid.

Dispersible powders and granules suitable for preparation of an aqueous suspension by the addition of water provide the active ingredient in admixture with a dispersing or wetting agent, suspending agent and one or more preservatives. Suitable dispersing or wetting agents or suspending agents are exemplified by those already mentioned above. Additional excipients, for example sweetening, flavoring and coloring agents, can also be present.

Pharmaceutical compositions of the invention can also be in the form of oil-in-water emulsions. The oily phase can be a vegetable oil or a mineral oil or mixtures of these. Suitable emulsifying agents can be naturally-occurring gums, for example gum acacia or gum tragacanth, naturally-occurring phosphatides, for example soy bean, lecithin, and esters or partial esters derived from fatty acids and hexitol, anhydrides, for example sorbitan monooleate, and condensation products of the said partial esters with ethylene oxide, for example polyoxyethylene sorbitan monooleate. The emulsions can also contain sweetening and flavoring agents.

Syrups and elixirs can be formulated with sweetening agents, for example glycerol, propylene glycol, sorbitol, glucose or sucrose. Such formulations can also contain a demulcent, a preservative and flavoring and coloring agents. The pharmaceutical compositions can be in the form of a sterile injectable aqueous or oleaginous suspension. This suspension can be formulated according to the known art using those suitable dispersing

or wetting agents and suspending agents that have been mentioned above. The sterile injectable preparation can also be a sterile injectable solution or suspension in a non-toxic parentally acceptable diluent or solvent, for example as a solution in 1,3-butanediol. Among the acceptable vehicles and solvents that can be employed are water, Ringer's solution and isotonic sodium chloride solution. In addition, sterile, fixed oils are conventionally employed as a solvent or suspending medium. For this purpose any bland fixed oil can be employed including synthetic mono- or diglycerides. In addition, fatty acids such as oleic acid find use in the preparation of injectables.

The nucleic acid molecules of the invention can also be administered in the form of suppositories, *e.g.*, for rectal administration of the drug. These compositions can be prepared by mixing the drug with a suitable non-irritating excipient that is solid at ordinary temperatures but liquid at the rectal temperature and will therefore melt in the rectum to release the drug. Such materials include cocoa butter and polyethylene glycols.

Nucleic acid molecules of the invention can be administered parenterally in a sterile medium. The drug, depending on the vehicle and concentration used, can either be suspended or dissolved in the vehicle. Advantageously, adjuvants such as local anesthetics, preservatives and buffering agents can be dissolved in the vehicle.

Dosage levels of the order of from about 0.1 mg to about 140 mg per kilogram of body weight per day are useful in the treatment of the above-indicated conditions (about 0.5 mg to about 7 g per patient per day). The amount of active ingredient that can be combined with the carrier materials to produce a single dosage form varies depending upon the host treated and the particular mode of administration. Dosage unit forms generally contain between from about 1 mg to about 500 mg of an active ingredient.

It is understood that the specific dose level for any particular patient depends upon a variety of factors including the activity of the specific compound employed, the age, body weight, general health, sex, diet, time of administration, route of administration, and rate of excretion, drug combination and the severity of the particular disease undergoing therapy.

For administration to non-human animals, the composition can also be added to the animal feed or drinking water. It can be convenient to formulate the animal feed and drinking water compositions so that the animal takes in a therapeutically appropriate quantity of the composition along with its diet. It can also be convenient to present the composition as a premix for addition to the feed or drinking water.

The nucleic acid molecules of the present invention can also be administered to a patient in combination with other therapeutic compounds to increase the overall therapeutic

effect. The use of multiple compounds to treat an indication can increase the beneficial effects while reducing the presence of side effects.

Alternatively, the enzymatic nucleic acid molecules of the instant invention can be expressed within cells from eukaryotic promoters (e.g., Izant and Weintraub, 1985 *Science* 229, 345; McGarry and Lindquist, 1986 *Proc. Natl. Acad. Sci. USA* 83, 399; Scanlon *et al.*, 1991, *Proc. Natl. Acad. Sci. USA*, 88, 10591-5; Kashani-Sabet *et al.*, 1992 *Antisense Res. Dev.*, 2, 3-15; Dropulic *et al.*, 1992 *J. Virol.*, 66, 1432-41; Weerasinghe *et al.*, 1991 *J. Virol.*, 65, 5531-4; Ojwang *et al.*, 1992 *Proc. Natl. Acad. Sci. USA* 89, 10802-6; Chen *et al.*, 1992 *Nucleic Acids Res.*, 20, 4581-9; Sarver *et al.*, 1990 *Science* 247, 1222-1225; Thompson *et al.*, 1995 *Nucleic Acids Res.* 23, 2259; Good *et al.*, 1997, *Gene Therapy*, 4, 45; all of the references are hereby incorporated in their totality by reference herein). Those skilled in the art realize that any nucleic acid can be expressed in eukaryotic cells from the appropriate DNA/RNA vector. The activity of such nucleic acids can be augmented by their release from the primary transcript by a enzymatic nucleic acid (Draper *et al.*, PCT WO 93/23569, and Sullivan *et al.*, PCT WO 94/02595; Ohkawa *et al.*, 1992 *Nucleic Acids Symp. Ser.*, 27, 15-6; Taira *et al.*, 1991, *Nucleic Acids Res.*, 19, 5125-30; Ventura *et al.*, 1993 *Nucleic Acids Res.*, 21, 3249-55; Chowrira *et al.*, 1994 *J. Biol. Chem.* 269, 25856; all of the references are hereby incorporated in their totality by reference herein).

In another aspect of the invention, RNA molecules of the present invention can be expressed from transcription units (see for example Couture *et al.*, 1996, *TIG.*, 12, 510) inserted into DNA or RNA vectors. The recombinant vectors can be DNA plasmids or viral vectors. Ribozyme expressing viral vectors can be constructed based on, but not limited to, adeno-associated virus, retrovirus, adenovirus, or alphavirus. The recombinant vectors capable of expressing the nucleic acid molecules can be delivered as described above, and persist in target cells. Alternatively, viral vectors can be used that provide for transient expression of nucleic acid molecules. Such vectors can be repeatedly administered as necessary. Once expressed, the nucleic acid molecule binds to the target mRNA. Delivery of nucleic acid molecule expressing vectors can be systemic, such as by intravenous or intramuscular administration, by administration to target cells ex-planted from the patient followed by reintroduction into the patient, or by any other means that would allow for introduction into the desired target cell (for a review see Couture *et al.*, 1996, *TIG.*, 12, 510).

In one aspect, the invention features an expression vector comprising nucleic acid sequence encoding at least one of the nucleic acid molecules of the instant invention. The

nucleic acid sequence encoding the nucleic acid molecules of the instant invention is operably linked in a manner that allows expression of that nucleic acid molecule.

In another aspect, the invention features an expression vector comprising: a) a transcription initiation region (*e.g.*, eukaryotic pol I, II or III initiation region); b) a transcription termination region (*e.g.*, eukaryotic pol I, II or III termination region); c) a nucleic acid sequence encoding at least one of the nucleic acid molecules of the instant invention; and wherein said sequence is operably linked to said initiation region and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule. The vector can optionally include an open reading frame (ORF) for a protein operably linked on the 5' side or the 3'-side of the sequence encoding the nucleic acid catalyst of the invention; and/or an intron (intervening sequences).

Transcription of the nucleic acid molecule sequences can be driven from a promoter for eukaryotic RNA polymerase I (pol I), RNA polymerase II (pol II), or RNA polymerase III (pol III). Transcripts from pol II or pol III promoters are generally expressed at high levels in all cells; the levels of a given pol II promoter in a given cell type will depend on the nature of the gene regulatory sequences (enhancers, silencers, etc.) present nearby. Prokaryotic RNA polymerase promoters can be also used, providing that the prokaryotic RNA polymerase enzyme is expressed in the appropriate cells (Elroy-Stein and Moss, 1990, *Proc. Natl. Acad. Sci. U S A*, 87, 6743-7; Gao and Huang 1993, *Nucleic Acids Res.*, 21, 2867-72; Lieber et al., 1993, *Methods Enzymol.*, 217, 47-66; Zhou et al., 1990, *Mol. Cell. Biol.*, 10, 4529-37). All of these references are incorporated by reference herein. Several investigators have demonstrated that nucleic acid molecules, such as enzymatic nucleic acids, expressed from such promoters function in mammalian cells (*e.g.* Kashani-Sabet et al., 1992, *Antisense Res. Dev.*, 2, 3-15; Ojwang et al., 1992, *Proc. Natl. Acad. Sci. U S A*, 89, 10802-6; Chen et al., 1992, *Nucleic Acids Res.*, 20, 4581-9; Yu et al., 1993, *Proc. Natl. Acad. Sci. U S A*, 90, 6340-4; L'Huillier et al., 1992, *EMBO J.*, 11, 4411-8; Lisiewicz et al., 1993, *Proc. Natl. Acad. Sci. U. S. A.*, 90, 8000-4; Thompson et al., 1995, *Nucleic Acids Res.*, 23, 2259; Sullenger & Cech, 1993, *Science*, 262, 1566). More specifically, transcription units such as the ones derived from genes encoding U6 small nuclear (snRNA), transfer RNA (tRNA) and adenovirus VA RNA are useful in generating high concentrations of desired RNA molecules such as enzymatic nucleic acids in cells (Thompson et al., *supra*; Couture and Stinchcomb, 1996, *supra*; Noonberg et al., 1994, *Nucleic Acid Res.*, 22, 2830; Noonberg et al., US Patent No. 5,624,803; Good et al., 1997, *Gene Ther.*, 4, 45; Beigelman et al., International PCT

Publication No. *WO 96/18736*; all of these publications are incorporated by reference herein. The above enzymatic nucleic acid transcription units can be incorporated into a variety of vectors for introduction into mammalian cells, including but not restricted to, plasmid DNA vectors, viral DNA vectors (such as adenovirus or adeno-associated virus vectors), or viral RNA vectors (such as retroviral or alphavirus vectors) (for a review see Couture and Stinchcomb, 1996, *supra*).

In yet another aspect, the invention features an expression vector comprising nucleic acid sequence encoding at least one of the nucleic acid molecules of the invention, in a manner that allows expression of that nucleic acid molecule. The expression vector comprises in one embodiment; a) a transcription initiation region; b) a transcription termination region; and c) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to said initiation region and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an open reading frame; and d) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to the 3'-end of said open reading frame and wherein said sequence is operably linked to said initiation region, said open reading frame and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In yet another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an intron; and d) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to said initiation region, said intron and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

In another embodiment, the expression vector comprises: a) a transcription initiation region; b) a transcription termination region; c) an intron; d) an open reading frame; and e) a nucleic acid sequence encoding at least one said nucleic acid molecule, wherein said sequence is operably linked to the 3'-end of said open reading frame and wherein said sequence is operably linked to said initiation region, said intron, said open reading frame and said termination region, in a manner that allows expression and/or delivery of said nucleic acid molecule.

The nucleic acid molecules of the present invention can also be administered to a patient in combination with other therapeutic compounds to increase the overall therapeutic effect. The use of multiple compounds to treat an indication can increase the beneficial effects while reducing the presence of side effects.

### Interferons

Type I interferons (IFN) are a class of natural cytokines that includes a family of greater than twenty-five IFN- $\alpha$  (Pesta, 1986, *Methods Enzymol.* 119, 3-14) as well as IFN- $\beta$ , and IFN- $\omega$ . Although evolutionarily derived from the same gene (Diaz *et al.*, 1994, *Genomics* 22, 540-552), there are many differences in the primary sequence of these molecules, implying an evolutionary divergence in biologic activity. All type I IFN share a common pattern of biologic effects that begin with binding of the IFN to the cell surface receptor (Pfeffer & Strulovici, 1992, Transmembrane secondary messengers for IFN- $\alpha/\beta$ , In: *Interferon. Principles and Medical Applications.*, S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.J. Stanton, and S.K. Tying, eds. 151-160). Binding is followed by activation of tyrosine kinases, including the Janus tyrosine kinases and the STAT proteins, which leads to the production of several IFN-stimulated gene products (Johnson *et al.*, 1994, *Sci. Am.* 270, 68-75). The IFN-stimulated gene products are responsible for the pleotropic biologic effects of type I IFN, including antiviral, antiproliferative, and immunomodulatory effects, cytokine induction, and HLA class I and class II regulation (Pestka *et al.*, 1987, *Annu. Rev. Biochem* 56, 727). Examples of IFN-stimulated gene products include 2-5-oligoadenylate synthetase (2-5 OAS),  $\beta_2$ -microglobulin, neopterin, p68 kinases, and the Mx protein (Chebath & Revel, 1992, The 2-5 A system: 2-5 A synthetase, isospecies and functions. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Jr. Fleischmann, T.K. Jr Hughes, G.R. Kimpel, D.W. Niesel, G.J. Stanton, and S.K. Tying, eds., pp. 225-236; Samuel, 1992, The RNA-dependent P1/eIF-2 $\alpha$  protein kinase. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.H. Stanton, and S.K. Tying, eds. 237-250; Horisberger, 1992, MX protein: function and Mechanism of Action. In: *Interferon. Principles and Medical Applications.* S. Baron, D.H. Coopenhaver, F. Dianzani, W.R. Fleischmann Jr., T.K. Hughes Jr., G.R. Kimpel, D.W. Niesel, G.H. Stanton, and S.K. Tying, eds. 215-224). Although all type I IFN have similar biologic effects, not all the activities are shared by each type I IFN, and, in many

cases, the extent of activity varies quite substantially for each IFN subtype (Fish *et al.*, 1989, *J. Interferon Res.* 9, 97-114; Ozes *et al.*, 1992, *J. Interferon Res.* 12, 55-59). More specifically, investigations into the properties of different subtypes of IFN- $\alpha$  and molecular hybrids of IFN- $\alpha$  have shown differences in pharmacologic properties (Rubinstein, 1987, *J. Interferon Res.* 7, 545-551). These pharmacologic differences can arise from as few as three amino acid residue changes (Lee *et al.*, 1982, *Cancer Res.* 42, 1312-1316).

Eighty-five to 166 amino acids are conserved in the known IFN- $\alpha$  subtypes. Excluding the IFN- $\alpha$  pseudogenes, there are approximately 25 known distinct IFN- $\alpha$  subtypes. Pairwise comparisons of these nonallelic subtypes show primary sequence differences ranging from 2% to 23%. In addition to the naturally occurring IFNs, a non-natural recombinant type I interferon known as consensus interferon (CIFN) has been synthesized as a therapeutic compound (Tong *et al.*, 1997, *Hepatology* 26, 747-754).

Interferon is currently in use for at least 12 different indications, including infectious and autoimmune diseases and cancer (Borden, 1992, *N. Engl. J. Med.* 326, 1491-1492). For autoimmune diseases, IFN has been utilized for treatment of rheumatoid arthritis, multiple sclerosis, and Crohn's disease. For treatment of cancer, IFN has been used alone or in combination with a number of different compounds. Specific types of cancers for that IFN has been used include squamous cell carcinomas, melanomas, hypernephromas, hemangiomas, hairy cell leukemia, and Kaposi's sarcoma. In the treatment of infectious diseases, IFNs increase the phagocytic activity of macrophages and cytotoxicity of lymphocytes and inhibits the propagation of cellular pathogens. Specific indications for that IFN has been used as treatment include: hepatitis B, human papillomavirus types 6 and 11 (i.e. genital warts) (Leventhal *et al.*, 1991, *N Engl J Med* 325, 613-617), chronic granulomatous disease, and hepatitis C virus.

Nucleic acid molecules of the instant invention, in combination with IFN, have the potential to improve the effectiveness of treatment of WNV or any of the other indications discussed above. Nucleic acid molecules targeting RNAs associated with diseases such as infectious diseases, autoimmune diseases, and cancer, can be used individually or in combination with other therapies such as IFN to achieve enhanced efficacy.

### Examples

The following are non-limiting examples showing the selection, isolation, synthesis and activity of nucleic acids of the instant invention.

The following examples demonstrate the selection and design of Antisense, hammerhead, DNAzyme, NCH, Amberzyme, Zinzyme, or G-Cleaver enzymatic nucleic acid molecules and binding/cleavage sites within WNV RNA.

Example 1: Identification of Potential Target Sites in Human WNV RNA

The sequence of human WNV was screened for accessible sites using a computer-folding algorithm. Regions of the RNA that do not form secondary folding structures and contained potential enzymatic nucleic acid and/or antisense binding/cleavage sites were identified. The sequences of these binding/cleavage sites are shown in **Tables III-XIII**.

Example 2: Selection of Enzymatic Nucleic Acid Cleavage Sites in Human WNV RNA

Enzymatic nucleic acid target sites were chosen by analyzing sequences of Human WNV (Genbank accession No: AF196835) and prioritizing the sites on the basis of folding. Enzymatic nucleic acid molecules are designed that could bind each target and are individually analyzed by computer folding (Christoffersen *et al.*, 1994 *J. Mol. Struct. Theochem*, 311, 273; Jaeger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA*, 86, 7706) to assess whether the enzymatic nucleic acid molecules sequences fold into the appropriate secondary structure. Those enzymatic nucleic acid molecules with unfavorable intramolecular interactions between the binding arms and the catalytic core are eliminated from consideration. As noted below, varying binding arm lengths can be chosen to optimize activity. Generally, at least 4 bases on each arm can bind to, or otherwise interact with, the target RNA.

Example 3: Chemical Synthesis and Purification of Enzymatic nucleic acid molecules and Antisense for Efficient Cleavage and/or blocking of WNV RNA

Enzymatic nucleic acid molecules and antisense constructs can be designed to anneal to various sites in the RNA transcript. The binding arms of the enzymatic nucleic acid molecules are complementary to the target site sequences described above, while the antisense constructs are complementary to the target site sequences described above. The enzymatic nucleic acid molecules and antisense constructs can be chemically synthesized using, for example, RNA syntheses such as those described above and those described in Usman *et al.*, (1987 *J. Am. Chem. Soc.*, 109, 7845), Scaringe *et al.*, (1990 *Nucleic Acids Res.*, 18, 5433) and Wincott *et al.*, *supra*. Such methods make use of common nucleic acid protecting and coupling groups, such as dimethoxytrityl at the 5'-end, and phosphoramidites at the 3'-end. The average stepwise coupling yields are typically >98%.

Enzymatic nucleic acid molecules and antisense constructs also can be synthesized from DNA templates using bacteriophage T7 RNA polymerase (Milligan and Uhlenbeck, 1989, *Methods Enzymol.* 180, 51). Enzymatic nucleic acid molecules and antisense constructs are purified by gel electrophoresis using known methods, or are purified by high pressure liquid chromatography (HPLC; See Wincott et al., *supra*; the totality of which is hereby incorporated herein by reference), and are resuspended in water. The sequences of chemically synthesized enzymatic nucleic acid constructs are shown below in **Table III-XIII**. The enzymatic nucleic acid molecules shown in **Table XIII** were chemically synthesized. The sequences of chemically synthesized antisense constructs are complimentary sequences to the Substrate sequences shown below as in **Table III-XIII**.

**Example 4: Enzymatic nucleic acid molecule Cleavage of WNV RNA Target *in vitro***

Enzymatic nucleic acid molecules targeted to the human WNV RNA are designed and synthesized as described above. These enzymatic nucleic acid molecules can be tested for cleavage activity *in vitro*, for example using the following procedure. The target sequences and the nucleotide location within the WNV RNA are given in **Tables III-XIII**.

**Cleavage Reactions:** Full-length or partially full-length, internally-labeled target RNA for the enzymatic nucleic acid cleavage assay is prepared by *in vitro* transcription in the presence of [ $\alpha$ - $^{32}$ P] CTP, passed over a G 50 Sephadex column by spin chromatography and used as substrate RNA without further purification. Alternately, substrates are 5'- $^{32}$ P-end labeled using T4 polynucleotide kinase enzyme. Assays are performed by pre-warming a 2X concentration of purified enzymatic nucleic acid in cleavage buffer (50 mM Tris-HCl, pH 7.5 at 37°C, 10 mM MgCl<sub>2</sub>), and the cleavage reaction is initiated by adding the 2X enzymatic nucleic acid mix to an equal volume of substrate RNA (maximum of 1-5 nM) that was also pre-warmed in cleavage buffer. As an initial screen, assays are carried out for 3 hours at 37°C using a final concentration of either 40 nM or 1 mM enzymatic nucleic acid molecule, *i.e.*, enzymatic nucleic acid molecule excess. The reaction is quenched by the addition of an equal volume of 95% formamide, 20 mM EDTA, 0.05% bromophenol blue and 0.05% xylene cyanol after which the sample is heated to 95°C for 2 minutes, quick chilled and loaded onto a denaturing polyacrylamide gel. Substrate RNA and the specific RNA cleavage products generated by enzymatic nucleic acid cleavage are visualized on an autoradiograph of the gel. The percentage of cleavage is determined by Phosphor Imager<sup>®</sup> quantitation of bands representing the intact substrate and the cleavage products. Using the methods described, five different enzymatic nucleic acid molecules of different motifs were tested for cleavage activity. The results of this study are shown in **Table XIV**, which shows cleavage data for five different enzymatic nucleic acid motifs (Hammerhead, Inozyme, DNAzyme, Amberzyme and Zinzyme).

Example 5: Nucleic acid inhibition of WNV target RNA *in vivo*

Nucleic acid molecules targeted to the human WNV RNA are designed and synthesized as described above. These nucleic acid molecules can be tested for cleavage activity *in vivo*, for example, using the procedures described below. The target sequences and the nucleotide location within the WNV RNA are given in **Tables III-XIII**.

Cell Culture Assays

HeLa cells are seeded in 96-well plates at a density of 9000-10,000 cells/well and incubated at 37°C under 5% CO<sub>2</sub> for 24 h. Vero and/or BHK-21 cells can also be used. Cells are then infected with WNV for 1 hour at a multiplicity of infection of 2 in a total volume of 0.1 ml per well. Transfection of enzymatic nucleic acid (for example, enzymatic nucleic acid molecule of SEQ ID NOS. 37019-37043) or control oligonucleotides (scrambled or binding-attenuated core sequence; 50 - 200 nM final) is achieved by mixing 5X enzymatic nucleic acid or control oligonucleotides (250 - 1000 nM) and 5X of a cationic lipid in DMEM with 5% fetal bovine serum (FBS) in U-bottom 96-well plates. Enzymatic nucleic acid/lipid complexes are allowed to incubate for 15 min at 37°C under 5% CO<sub>2</sub>. The viral inoculum is aspirated from cells and replaced with 80 µl of DMEM with 5% FBS serum and 20 µl of 5X nucleic acid/lipid complexes. Cells are incubated with 5X complexes for 24 h at 37°C under 5% CO<sub>2</sub>. After 24 h, intracellular virus released after freeze/thaw and/or virus secreted into the media is quantified by plaque assay or by a cytopathic effect limiting dilution assay. In addition, viral protein and viral RNA can be analyzed by ELISA and RT-PCR, respectively.

Animal Models

WNV infectivity has been studied in mice (Ben-Nathan *et al.*, 1996m *Arch. Virol.*, 141, 459-469; Chambers *et al.*, 1998, 79, 2375-2380). Mouse models such as those described can be used to study inhibition of WNV by the nucleic acid molecules of the instant invention. For example, the induction to WNV infection in mice has been demonstrated, resulting in penetration of WNV into the central nervous system. Viral infection in mice is exacerbated when animals are macrophage depleted, resulting in higher and extended viremia and accelerated development of encephalitis and death. Both macrophage intact and macrophage depleted mice thus infected with WNV are treated with enzymatic nucleic acids of the invention (SEQ ID NOS: 37019-37043) along with relevant scrambled or attenuated controls via sub-cutaneous injection or intraperitoneal injection. Viral load and mortality are

used as endpoints in the study. As noted in Ben-Nathan *et al.*, *supra*, an increase in mortality from 50% to 100% results in macrophage depleted mice. A decrease in mortality based on these percentages with a similar decrease in viral load in these animals is indicative of a therapeutic effect mediated by nucleic acid molecules of the invention.

#### Diagnostic uses

Enzymatic nucleic acid molecules of this invention can be used as diagnostic tools to examine genetic drift and mutations within diseased cells or to detect the presence of *WNV* RNA in a cell. The close relationship between enzymatic nucleic acid activity and the structure of the target RNA allows the detection of mutations in any region of the molecule that alters the base-pairing and three-dimensional structure of the target RNA. By using multiple enzymatic nucleic acid molecules described in this invention, one can map nucleotide changes that are important to RNA structure and function *in vitro*, as well as in cells and tissues *in vivo*. Cleavage of target RNAs with enzymatic nucleic acid molecules can be used to inhibit gene expression and define the role of specified gene products in the progression of disease. In this manner, other genetic targets can be defined as important mediators of the disease. Such methods can improve treatment of the disease by affording the possibility of combination therapies (e.g., multiple enzymatic nucleic acid molecules targeted to different genes, enzymatic nucleic acid molecules coupled with known small molecule inhibitors, or intermittent treatment with combinations of enzymatic nucleic acid molecules and/or other chemical or biological molecules). Other *in vitro* uses of enzymatic nucleic acids of this invention are well known in the art, and include detection of the presence of mRNAs associated with WNV related condition. Such RNA is detected by determining the presence of a cleavage product after treatment with an enzymatic nucleic acid molecule using standard methodology.

Enzymatic nucleic acid molecules that can cleave only wild-type or mutant forms of the target RNA can be used for the assay. The first enzymatic nucleic acid molecule is used to identify wild-type RNA present in the sample and the second enzymatic nucleic acid molecule will be used to identify mutant RNA in the sample. As reaction controls, synthetic substrates of both wild-type and mutant RNA are cleaved by both enzymatic nucleic acid molecules to demonstrate the relative enzymatic nucleic acid efficiencies in the reactions and the absence of cleavage of the "non-targeted" RNA species. The cleavage products from the synthetic substrates also serve to generate size markers for the analysis of wild-type and

mutant RNAs in the sample population. Thus each analysis requires two enzymatic nucleic acid molecules, two substrates and one unknown sample that is combined into six reactions. The presence of cleavage products is determined using an RNase protection assay so that full-length and cleavage fragments of each RNA can be analyzed in one lane of a polyacrylamide gel. It is not absolutely required to quantify the results to gain insight into the expression of mutant RNAs and putative risk of the desired phenotypic changes in target cells. The expression of mRNA whose protein product is implicated in the development of the phenotype (*i.e.*, WNV) is adequate to establish risk. If probes of comparable specific activity are used for both transcripts, then a qualitative comparison of RNA levels is adequate and decreases the cost of the initial diagnosis. Higher mutant form to wild-type ratios are correlated with higher risk whether RNA levels are compared qualitatively or quantitatively.

#### Additional Uses

The sequence-specific enzymatic nucleic acid molecules of the instant invention can also have many of the same applications for the study of RNA that DNA restriction endonucleases have for the study of DNA (Nathans *et al.*, 1975 *Ann. Rev. Biochem.* 44:273). For example, the pattern of restriction fragments can be used to establish sequence relationships between two related RNAs, and large RNAs could be specifically cleaved to fragments of a size more useful for study. The ability to engineer sequence specificity of the enzymatic nucleic acid molecule is ideal for cleavage of RNAs of unknown sequence. Applicant describes the use of nucleic acid molecules to down-regulate gene expression of target genes in bacterial, microbial, fungal, viral, and eukaryotic systems including plant, or mammalian cells.

All patents and publications mentioned in the specification are indicative of the levels of skill of those skilled in the art to that the invention pertains. All references cited in this disclosure are incorporated by reference to the same extent as if each reference had been incorporated by reference in its entirety individually.

One skilled in the art would readily appreciate that the present invention is well adapted to carry out the objects and obtain the ends and advantages mentioned, as well as those inherent therein. The methods and compositions described herein as presently representative of preferred embodiments are exemplary and are not intended as limitations on the scope of the invention. Changes therein and other uses will occur to those skilled in the

art, that are encompassed within the spirit of the invention, are defined by the scope of the claims.

It will be readily apparent to one skilled in the art that varying substitutions and modifications can be made to the invention disclosed herein without departing from the scope and spirit of the invention. Thus, such additional embodiments are within the scope of the present invention and the following claims.

The invention illustratively described herein suitably can be practiced in the absence of any element or elements, limitation or limitations that are not specifically disclosed herein. The terms and expressions that have been employed are used as terms of description and not of limitation, and there is no intention that in the use of such terms and expressions of excluding any equivalents of the features shown and described or portions thereof, but it is recognized that various modifications are possible within the scope of the invention claimed. Thus, it should be understood that although the present invention has been specifically disclosed by preferred embodiments, optional features, modification and variation of the concepts herein disclosed can be resorted to by those skilled in the art, and that such modifications and variations are considered to fall within the scope of this invention as defined by the description and the appended claims.

In addition, where features or aspects of the invention are described in terms of Markush groups or other grouping of alternatives, those skilled in the art will recognize that the invention is also thereby described in terms of any individual member or subgroup of members of the Markush group or other group.

Other embodiments are within the claims that follow.

TABLE I

**Characteristics of naturally occurring ribozymes****Group I Introns**

- Size: ~150 to >1000 nucleotides.
- Requires a U in the target sequence immediately 5' of the cleavage site.
- Binds 4-6 nucleotides at the 5'-side of the cleavage site.
- Reaction mechanism: attack by the 3'-OH of guanosine to generate cleavage products with 3'-OH and 5'-guanosine.
- Additional protein cofactors required in some cases to help folding and maintenance of the active structure.
- Over 300 known members of this class. Found as an intervening sequence in *Tetrahymena thermophila* rRNA, fungal mitochondria, chloroplasts, phage T4, blue-green algae, and others.
- Major structural features largely established through phylogenetic comparisons, mutagenesis, and biochemical studies [i,ii].
- Complete kinetic framework established for one ribozyme [iii,iv,v,vi].
- Studies of ribozyme folding and substrate docking underway [vii,viii,ix].
- Chemical modification investigation of important residues well established [x,xi].
- The small (4-6 nt) binding site may make this ribozyme too non-specific for targeted RNA cleavage, however, the *Tetrahymena* group I intron has been used to repair a "defective"  $\beta$ -galactosidase message by the ligation of new  $\beta$ -galactosidase sequences onto the defective message [xii].

**RNase P RNA (M1 RNA)**

- Size: ~290 to 400 nucleotides.
- RNA portion of a ubiquitous ribonucleoprotein enzyme.
- Cleaves tRNA precursors to form mature tRNA [xiii].
- Reaction mechanism: possible attack by  $M^{2+}$ -OH to generate cleavage products with 3'-OH and 5'-phosphate.
- RNase P is found throughout the prokaryotes and eukaryotes. The RNA subunit has been sequenced from bacteria, yeast, rodents, and primates.
- Recruitment of endogenous RNase P for therapeutic applications is possible through hybridization of an External Guide Sequence (EGS) to the target RNA [xiv,xv].
- Important phosphate and 2' OH contacts recently identified [xvi,xvii].

**Group II Introns**

- Size: >1000 nucleotides.
- Trans cleavage of target RNAs recently demonstrated [xviii,xix].
- Sequence requirements not fully determined.
- Reaction mechanism: 2'-OH of an internal adenosine generates cleavage products with 3'-OH and a "lariat" RNA containing a 3'-5' and a 2'-5' branch point.

Table I

- Only natural ribozyme with demonstrated participation in DNA cleavage [xx,xxi] in addition to RNA cleavage and ligation.
- Major structural features largely established through phylogenetic comparisons [xxii].
- Important 2' OH contacts beginning to be identified [xxiii]
- Kinetic framework under development [xxiv]

### Neurospora VS RNA

- Size: ~144 nucleotides.
- Trans cleavage of hairpin target RNAs recently demonstrated [xxv].
- Sequence requirements not fully determined.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- Binding sites and structural requirements not fully determined.
- Only 1 known member of this class. Found in Neurospora VS RNA.

### Hammerhead Ribozyme

(see text for references)

- Size: ~13 to 40 nucleotides.
- Requires the target sequence UH immediately 5' of the cleavage site.
- Binds a variable number nucleotides on both sides of the cleavage site.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- 14 known members of this class. Found in a number of plant pathogens (virusoids) that use RNA as the infectious agent.
- Essential structural features largely defined, including 2 crystal structures [xxvi,xxvii]
- Minimal ligation activity demonstrated (for engineering through *in vitro* selection) [xxviii]
- Complete kinetic framework established for two or more ribozymes [xxix].
- Chemical modification investigation of important residues well established [xxx].

### Hairpin Ribozyme

- Size: ~50 nucleotides.
- Requires the target sequence GUC immediately 3' of the cleavage site.
- Binds 4-6 nucleotides at the 5'-side of the cleavage site and a variable number to the 3'-side of the cleavage site.
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- 3 known members of this class. Found in three plant pathogen (satellite RNAs of the tobacco ringspot virus, arabis mosaic virus and chicory yellow mottle virus) which uses RNA as the infectious agent.
- Essential structural features largely defined [xxxi,xxxii,xxxiii,xxxiv]
- Ligation activity (in addition to cleavage activity) makes ribozyme amenable to engineering through *in vitro* selection [xxxv]
- Complete kinetic framework established for one ribozyme [xxxvi].
- Chemical modification investigation of important residues begun [xxxvii,xxxviii].

**Hepatitis Delta Virus (HDV) Ribozyme**

- Size: ~60 nucleotides.
- Trans cleavage of target RNAs demonstrated [xxxix].
- Binding sites and structural requirements not fully determined, although no sequences 5' of cleavage site are required. Folded ribozyme contains a pseudoknot structure [xli].
- Reaction mechanism: attack by 2'-OH 5' to the scissile bond to generate cleavage products with 2',3'-cyclic phosphate and 5'-OH ends.
- Only 2 known members of this class. Found in human HDV.
- Circular form of HDV is active and shows increased nuclease stability [xlii]

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Table II

Table II:

A. 2.5  $\mu$ mol Synthesis Cycle ABI 394 Instrument

Reagent	Equivalents	Amount	Wait Time* DNA	Wait Time* 2'-O-methyl	Wait Time* RNA
Phosphoramidites	6.5	163 $\mu$ L	45 sec	2.5 min	7.5 min
S-Ethyl Tetrazole	23.8	238 $\mu$ L	45 sec	2.5 min	7.5 min
Acetic Anhydride	100	233 $\mu$ L	5 sec	5 sec	5 sec
N-Methyl Imidazole	186	233 $\mu$ L	5 sec	5 sec	5 sec
TCA	176	2.3 mL	21 sec	21 sec	21 sec
Iodine	11.2	1.7 mL	45 sec	45 sec	45 sec
Beaucage	12.9	645 $\mu$ L	100 sec	300 sec	300 sec
Acetonitrile	NA	6.67 mL	NA	NA	NA

B. 0.2  $\mu$ mol Synthesis Cycle ABI 394 Instrument

Reagent	Equivalents	Amount	Wait Time* DNA	Wait Time* 2'-O-methyl	Wait Time* RNA
Phosphoramidites	15	31 $\mu$ L	45 sec	233 sec	465 sec
S-Ethyl Tetrazole	38.7	31 $\mu$ L	45 sec	233 min	465 sec
Acetic Anhydride	655	124 $\mu$ L	5 sec	5 sec	5 sec
N-Methyl Imidazole	1245	124 $\mu$ L	5 sec	5 sec	5 sec
TCA	700	732 $\mu$ L	10 sec	10 sec	10 sec
Iodine	20.6	244 $\mu$ L	15 sec	15 sec	15 sec

Table II

Beaucage	7.7	232 $\mu$ L	100 sec	300 sec	300 sec
Acetonitrile	NA	2.64 mL	NA	NA	NA
C. 0.2 $\mu$ mol Synthesis Cycle 96 well Instrument					
Reagent	Equivalents	Amount	Wait Time*	Wait Time* 2'-O-methyl	Wait Time* Ribo
	DNA/2'-O-methyl/Ribo	DNA/2'-O-methyl/Ribo	DNA		
Phosphoramidites	22/33/66	40/60/120 $\mu$ L	60 sec	180 sec	360sec
S-Ethyl Tetrazole	70/105/210	40/60/120 $\mu$ L	60 sec	180 min	360 sec
Acetic Anhydride	265/265/265	50/50/50 $\mu$ L	10 sec	10 sec	10 sec
N-Methyl Imidazole	502/502/502	50/50/50 $\mu$ L	10 sec	10 sec	10 sec
TCA	238/475/475	250/500/500 $\mu$ L	15 sec	15 sec	15 sec
Iodine	6.8/6.8/6.8	80/80/80 $\mu$ L	30 sec	30 sec	30 sec
Beaucage	34/51/51	80/120/120	100 sec	200 sec	200 sec
Acetonitrile	NA	1150/1150/1150 $\mu$ L	NA	NA	NA

\* Wait time does not include contact time during delivery.

Table III

Table III: WNV Hammerhead Ribozyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	R <sub>s</sub> Seq ID
30	GACAAACU U AGUAGUGU	1	ACACUACU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGUUUGUC	15309
31	ACAAACUU A GUAGUGUU	2	AACACUAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGUUUGU	15310
34	AACUUAGU A GUGUUUGU	3	ACAAACAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACUAAAGU	15311
39	AGUAGUGU U UGUGAGGA	4	UCCUCACA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACACUACU	15312
40	GUAGUGUU U GUGAGGAU	5	AUCCUCAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACACUAC	15313
49	GUGAGGAU U AACACAA	6	UUGUUGUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUCCUCAC	15314
50	UGAGGAUU A ACAACAAU	7	AUUGUUGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAUCCUCA	15315
59	ACAACAAU U AACACAGU	8	ACUGUGUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUUGUUGU	15316
60	CAACAAU A ACACAGUG	9	CACUGUGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAUUGUUG	15317
77	CGAGCUGU U UCUGAGCA	10	UGCUAAGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAGCUCG	15318
78	GAGCUGUU U CUUAGCAC	11	GUGCUAAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACAGCUC	15319
79	AGCUGUUU C UUAGCACG	12	CGUGCUAA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAACAGCU	15320
81	CUUUGUCU U AGCAGCAA	13	UUCGUGCU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAAACAG	15321
82	UGUUUCUU A GCACGAAG	14	CUUCGUGC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGAAACA	15322
93	ACGAAGAU C UCGAUGUC	15	GACAUCGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUCUUCGU	15323
95	GAAGAUCU C GAUGUCUA	16	UAGACAUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAUUCUUG	15324
101	CUCGAUGU C UAAGAAAC	17	GUUUCUUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAUCGAG	15325
103	CGAUGUCU A AGAAACCA	18	UGUUCUUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGACAUCG	15326
138	CGGGCUGU C AAUAUGCU	19	AGCAUAUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAGCCCG	15327
142	CUGUCAAU A UGCUAAAA	20	UUUUAGCA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUUGACAG	15328
147	AAUAUGCU A AAACGCCG	21	CCGCGUUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGCAUAUU	15329
170	CCGCGUGU U GUCCUUGA	22	UCAAGGAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACACGCCG	15330
173	CGUGUUGU C CUUGAUUG	23	CAAUCAAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAACACG	15331
176	GUUGUCUU U GAUUGGAC	24	GUCCAAUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGACAAC	15332
180	UCCUGAUU U GGACUGAA	25	UUCAGUCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUCAAGGA	15333
196	AGAGGGCU A UGUUGAGC	26	GCUCAACA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGCCUCU	15334
200	GGCUAUGU U GAGCCUGA	27	UCAGGCUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAUAGCC	15335
210	AGCCUGAU C GACGGCAA	28	UUGCCGUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUCAGGCU	15336
228	GGGCCAAU A CGAUUUGU	29	ACAAUUCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUUGGCC	15337
233	AAUACGAU U UGUGUUGG	30	CCAAACAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUCGUUUU	15338
234	AUACGAUU U GUGUUGGC	31	GCCAACAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAUCGUUU	15339
239	AUUUGUGU U GGCUCUCU	32	AGAGAGCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACACAAAU	15340
244	UGUUGGCU C UCUGGGCG	33	CGCCAAGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGCCAACA	15341
246	UUGGCUCU C UUGGCGUU	34	AACGCCAA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAGCCAA	15342
248	GGCUCUCU U GCGUUCU	35	AGAACGCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAGAGCC	15343
254	CUUGGCGU U CUUCAGGU	36	ACCUGAAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACGCCAAG	15344
255	UUGGCGUU C UUCAGGUU	37	AACCUGAA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACGCCAA	15345
257	GGCGUUCU U CAGGUJCA	38	UGAACCUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAACGCC	15346
258	GCGUUCUU C AGGUUCAC	39	GUGAACCU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGAACGC	15347
263	CUUCAGGU U CACAGCAA	40	UUGCUGUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACCUGAAG	15348
264	UUCAGGUU C ACAGCAAU	41	AUUGCUGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACCUCAA	15349
273	ACAGCAAU U GCUCGAC	42	GUCGGAGC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUUGCUGU	15350
277	CAAUUGCU C CGACCCGA	43	UCGGGUCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGCAAUUG	15351
298	UGCUGGAU C GAUGGAGA	44	UCUCCAUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUCCAGCA	15352
339	AAACACCU U CUGAGUUU	45	AAACUCAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGUGUUU	15353
340	AACACCUU C UGAGUUUU	46	AAAACUCA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGGUGUU	15354
346	UUCUGAGU U UUAAGAAG	47	CUUCUUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACUCAGAA	15355
347	UCUGAGUU U UAAGAAGG	48	CCUUCUUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACUCAGA	15356
348	CUGAGUUU U AAGAAGGA	49	UCCUUCUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAACUCAG	15357
349	UGAGUUUU A AGAAGGAA	50	UUCUUCUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAAACUCA	15358
360	AAGGAACU A GGGACCUU	51	AAGGUCCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGUUCUUU	15359
368	AGGGACCU U GACCAGUG	52	CAGUGGUC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGUCCCU	15360
379	CCAGUGCU A UCAAUCCG	53	CCGAUUGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGCACUGG	15361
381	AGUGCUAU C AAUCGGCG	54	CGCCGAUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUAGCACU	15362
385	CUAUCAAU C GCGGAGC	55	GCUCGCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUUGAUAG	15363
395	GCGGAGCU C AAAACAAA	56	UUUGUUUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGCUCCGC	15364
429	ACCGGAUU U GCAGUCAU	57	AUGACUGC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUUCCGGU	15365
435	AUUGCAGU C AUGAUUGG	58	CCAUAUUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACUGCAAU	15366
441	GUCAUGAU U GGCCUGAU	59	AUCAGGCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUCAUGAC	15367

Table III

450	GGCCUGAU C GCCAGCGU	60	ACGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGCC	15368
459	GCCAGCGU A GGAGCAGU	61	ACUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACGCUGGC	15369
468	GGAGCAGU U ACCCUCUC	62	GAGAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACTGCUC	15370
469	GAGCAGU A CCCUCUCU	63	AGAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA AACUGCUC	15371
474	GUUACCCU C UCUAACUU	64	AAGUUAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUAA	15372
476	UACCCUCU C UAACUUC	65	GGAAAGUA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGUA	15373
478	CCCUCUCU A ACUUCCAA	66	UUGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGGG	15374
482	CUCUAACU U CCAAGGGA	67	UCCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUAGAG	15375
483	UCUAACUU C CAAGGGAA	68	UUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAGA	15376
507	AUGACGGU A AAUGCUC	69	GUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCU	15377
514	UAAAGUCU A CUGACGUC	70	GACGUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUUA	15378
522	ACUGACGU C ACAGAUGU	71	ACAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCAGU	15379
531	ACAGAUGU C AUCACGAU	72	AUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCUGU	15380
534	GAUGUCAU C ACGAUUCC	73	GGAAUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACAUC	15381
540	AUCACGAU U CCAACAGC	74	GCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCGUGAU	15382
541	UCACGAU C CAACAGCU	75	AGCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCGUGA	15383
564	AAGAACCU A UGCAUUGU	76	ACAAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUCUU	15384
570	CUAUGCAU U GUCAGAGC	77	GCUCUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUAG	15385
573	UGCAUUGU C AGAGCAAU	78	AUUGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUGA	15386
593	UGUGGGAU A CAUGUGCG	79	CGCACAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCCACA	15387
607	GCGAUGAU A CUAUCACU	80	AGUGAUAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCGC	15388
610	AUGAUACU A UCACUUAU	81	AUAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUAUCAU	15389
612	GAUACUUA C ACUUAUGA	82	UCAUAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUAGUAUC	15390
616	CUAUCACU U AUGAAUGC	83	GCAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUAG	15391
617	UAUCACUU A UGAAUGCC	84	GGCAUUCA CUGAUGAG	GCCGUUAGGC	CGAA AAGUGUAU	15392
635	AGUGCUGU C GGCUGGUA	85	UACCAGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCACU	15393
643	CGGCUUGU A AUGAUCCA	86	UGACUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCCG	15394
649	GUAAUGAU C CAGAAGAC	87	GUCUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUUA	15395
660	GAAGACAU C GACUGUUG	88	CAACAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUUC	15396
667	UCGACUGU U GGUGCACA	89	UGUGCACC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUCGA	15397
680	CACAAAGU C AGCAGUCU	90	AGACUGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGUG	15398
687	UCAGCAGU C UACGUCAG	91	CUGACGUA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUGA	15399
689	AGCAGUCU A CGUCAGGU	92	ACCUGACG CUGAUGAG	GCCGUUAGGC	CGAA AGACUGCU	15400
693	GUCUACGU C AGGUUUGG	93	CCAUACCU CUGAUGAG	GCCGUUAGGC	CGAA ACGUAGAC	15401
698	CGUCAGGU A UGGAAGAU	94	AUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA ACCUGACG	15402
725	ACGCCACU C AAGACGCA	95	UGCGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCGCU	15403
736	GACGCAGU C GGAGGUCA	96	UGACCUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCGUC	15404
743	UCGGAGGU C ACUGACAG	97	CUGUCAGU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCGA	15405
775	AAAGCACU C UAGCGAAC	98	GUUCGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUUU	15406
777	AGCACUCU A GCGAACAA	99	UUGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGCU	15407
796	AGGGGGCU U GGAUGGAC	100	GUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCCU	15408
824	CACAAGGU A UUUGGUAA	101	UUACCAA CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGUG	15409
826	CAAGGUU U UGUUAAAA	102	UUUUACCA CUGAUGAG	GCCGUUAGGC	CGAA AUACCUUG	15410
827	AAGGUUU U GGUAAAAA	103	UUUUUACC CUGAUGAG	GCCGUUAGGC	CGAA AAUACCUU	15411
831	UAUUUGGU A AAAACAGA	104	UCUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUA	15412
842	AACAGAAU C AUGGAUCU	105	AGAUCCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGUU	15413
849	UCAUGGAU C UUGAGGAA	106	UUCUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUGA	15414
851	AUGGAUCU U GAGGAACC	107	GUUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCAU	15415
866	CCCUGGAU A UGCCUGG	108	CCAGGGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGGG	15416
885	GCAGCCGU C AUUGGUUG	109	CAACCAAU CUGAUGAG	GCCGUUAGGC	CGAA ACGGCUGC	15417
888	GCCGUCU U GGUUGGAU	110	AUCCAACC CUGAUGAG	GCCGUUAGGC	CGAA AUGACGGC	15418
892	UCAUUGGU U GGAUGCUU	111	AAGCAUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUGA	15419
900	UGGAUGCU U GGGAGCAA	112	UUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCCA	15420
924	CAGAGAGU U GUGUUUGU	113	ACAAACAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCUG	15421
929	AGUUGUGU U UGUCGUGC	114	GCACGACA CUGAUGAG	GCCGUUAGGC	CGAA ACACAACU	15422
930	GUUGUGUU U GUCGUGCU	115	AGCACGAC CUGAUGAG	GCCGUUAGGC	CGAA AACACAAC	15423
933	GUGUUUGU C GUGCUAUU	116	AAUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA ACAAACAC	15424
939	GUCGUGCU A UUGCUUUU	117	AAAAGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCACGAC	15425
941	CGUGCUAU U GCUUUGG	118	CCAAAAGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGCACG	15426
945	CUAUUGCU U UUGUGGGC	119	GCCACCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUAG	15427
946	UAUUGCUU U UGGUGGCC	120	GGCCACCA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAAUA	15428
947	AUUGCUUU U GGUUGCCC	121	GGGCCACC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCAAU	15429
961	CCCCAGCU U ACAGCUUC	122	GAAGCUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGGG	15430

Table III

962	CCCAGCUU A CAGCUUCA	123	UGAAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUGGG	15431
968	UUACAGCU U CAACUGCC	124	GGCAGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGUAA	15432
969	UACAGCUU C AACUGCCU	125	AGGCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUGUA	15433
978	AACUGCCU U GGAAUGAG	126	CUCAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCAGUU	15434
998	CAGAGACU U CUUGGAAG	127	CUUCCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUCUG	15435
999	AGAGACUU C UUGGAAGG	128	CCUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCUCU	15436
1001	AGACUUCU U GGAAGGAG	129	CUCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAGUCU	15437
1013	AGGAGUGU C UGGAGCAA	130	UUGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUCCU	15438
1033	GGUGGAU U UGGUUCUC	131	GAGAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCACCC	15439
1034	GGUGGAU U GGUUCUCG	132	CGAAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCACC	15440
1038	GAUUUGGU U CUGAAGG	133	CCUUCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCAAUC	15441
1039	AUUUGGUU C UCGAAGGC	134	GCCUUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCAAU	15442
1041	UUGGUUCU C GAAGGCGA	135	UCGCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAACCAA	15443
1063	GCGUGACU A UCAUGUCU	136	AGACAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCACGC	15444
1065	GUGACUUA C AUGUCUAA	137	UUAGACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGUCAC	15445
1070	UAUCAUGU C UAAGGACA	138	UGUCCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUGAUA	15446
1072	UCAUGUCU A AGGACAAG	139	CUUGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACAUGA	15447
1084	ACAAGCCU A CCAUCGAU	140	AUCGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCUUGU	15448
1089	CCUACCAU C GAUGUGAA	141	UUCACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGUAGG	15449
1108	UGAUGAAU A UGGAGGCG	142	CGCCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGAUA	15450
1119	GAGGCGGU C AACCUGGC	143	GCCAGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGCCUC	15451
1134	GCAGAGGU C CGCAGUUA	144	UAACUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCUGC	15452
1141	UCCGAGU U AUUGCUAU	145	AUAGCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGC CGA	15453
1142	CCGAGUU A UUGCUAU	146	AAUAGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGC CG	15454
1144	GCAGUUAU U GCUAUUUG	147	CAAAUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAACUGC	15455
1148	UUAUUGCU A UUUGGCUA	148	UAGCCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAAUAA	15456
1150	AUUGCUAU U UGGCUACC	149	GGUAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGCAAU	15457
1151	UUGCUAU U GGUACCG	150	CGGUAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUAGCAA	15458
1156	AUUUGGUU A CCGUCAGC	151	GCUGACGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCCAAU	15459
1161	GCUACCGU C AGCGAUCU	152	AGAUCGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUAGC	15460
1168	UCAGCGAU C UCUCACC	153	GGUGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGUGA	15461
1170	AGCGAUCU C UCCACCAA	154	UUGGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUCGCU	15462
1172	CGAUCUCU C CACCAAAG	155	CUUUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGAUCG	15463
1207	GAGAAGCU C ACAAUAGC	156	GUCAUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUUCUC	15464
1234	ACCCAGCU U UUGUGUGC	157	GCACACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGGGU	15465
1235	CCCAGCUU U UGUGUGCA	158	UGCACACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUGGG	15466
1236	CCAGCUUU U GUGUGCAG	159	CUGCACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGCUGG	15467
1286	CUGCGGAU U AUUUGGCA	160	UGCCAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCGCAG	15468
1287	UGCGGAU A UUUGGCAA	161	UUGCCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCGCA	15469
1289	CGGAUUAU U UGGCAAAG	162	CUUUGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAAUCCG	15470
1290	GAUUAUUAU U GGCAAAGG	163	CCUUGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUAAUCC	15471
1305	GGAAGCAU U GACACAUG	164	CAUGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUUCC	15472
1322	CGCCAAAU U UGCCUGCU	165	AGCAGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUGGCG	15473
1323	GCCAAAUU U GCCUGCUC	166	GAGCAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGGCG	15474
1331	UGCCUGCU C UACCAAGG	167	CCUUGGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGGCA	15475
1333	CCUGCUCU A CCAAGGCA	168	UGCUUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGCAGG	15476
1344	AAGGCAAU A GGAAGAAC	169	GUUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGCCUU	15477
1356	AGAACCAU C UUGAAAGA	170	UCUUUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGUUCU	15478
1358	AACCAUCU U GAAAGAGA	171	UCUCUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUGGUU	15479
1369	AAGAGAAU A UCAAGUAC	172	GUACUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCUCUU	15480
1371	GAGAAUUAU C AAGUACGA	173	UCGUACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAUUCUC	15481
1376	UAUCAAGU A CGAAGUGG	174	CCACUUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGAUA	15482
1389	GUGGCCAU U UUUGUCCA	175	UGGACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGCCAC	15483
1390	UGGCCAUU U UUGUCCAU	176	AUGGACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGGCCA	15484
1391	GGCCAUUU U UGUCCAUG	177	CAUGGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAUGGCC	15485
1392	GCCAUUUU U GUCCAUGG	178	CCAUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAAUGGC	15486
1395	AUUUUUGU C CAUGGACC	179	GGUCCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAUAU	15487
1408	GACCAACU A CUGUGGAG	180	CUCCACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUGGUC	15488
1418	UGUGGAGU C GCACGGAA	181	UUCCGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCCACA	15489
1430	CGGAAACU A CUCCACAC	182	GUGUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUUCCG	15490
1433	AAACUACU C CACACAGG	183	CCUGUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUAGUUU	15491
1443	ACACAGGU U GGAGCCAC	184	GUGGCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUGUGU	15492
1453	GAGCCACU C AGGCAGGG	185	CCUGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGCUC	15493

Table III

1466	AGGGAGAU U CAGCAUCA	186	UGAUGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUCCCU	15494
1467	GGGAGAUU C AGCAUCAC	187	GUGAUGC U CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCUCCC	15495
1473	UUCAGCAU C ACUCCUGC	188	GCAGGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUGAA	15496
1477	GCAUCACU C CUGCGGCG	189	CGCCGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGAUGC	15497
1489	CGGCGCCU U CAUACACA	190	UGUGUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCGCCG	15498
1490	GGCGCCUU C AUACACAC	191	GUGUGUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGCGCC	15499
1493	GCCUUCAU A CACACUAA	192	UUAGUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAAGGC	15500
1500	UACACACU A AAGCUUGG	193	CCAAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGUGUA	15501
1506	CUAAGCU U GGAGAAUA	194	UAUUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUUUAG	15502
1514	UGGAGAAU A UGAGAGAG	195	CCUCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCUCCA	15503
1547	ACCACGGU C AGGGAUUG	196	CAAUCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGUGGU	15504
1554	UCAGGGAU U GACACCAA	197	UUGGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCCUGA	15505
1568	CAUUGCAU A CUACGUGA	198	UCACGUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCAUUG	15506
1571	UGCAUACU A CGUGAUGA	199	UCAUCACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUAUGCA	15507
1584	AUGACUGU U GGAACAAA	200	UUUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUCAU	15508
1598	AAAGACGU U CUUGGUCC	201	GGACCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUUUU	15509
1599	AAGACGUU C UUGGUCCA	202	UGGACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGUCUU	15510
1601	GACGUUCU U GGUCCAUC	203	GAUGGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAACGUC	15511
1605	UUCUUGGU C CAUCGUGA	204	UCACGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAAGAA	15512
1609	UGGUCCAU C GUGAGUGG	205	CCACUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGACCA	15513
1619	UGAGUGGU U CAUGGACC	206	GGUCCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACUCA	15514
1620	GAGUGGUU C AUGGACCU	207	AGGUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCACUC	15515
1629	AUGGACCU C AACCUCCC	208	GGGAGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUCCAU	15516
1635	CUCAACCU C CCUUGGAG	209	CUCCAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUUGAG	15517
1639	ACCUCCCU U GGAGCAGU	210	ACUGCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGAGGU	15518
1657	CUGGAAGU A CUGUGUGG	211	CCACACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUC CAG	15519
1682	AGAGACGU U AAUGGAGU	212	ACUCCAUI CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUCUCU	15520
1683	GAGACGUU A AUGGAGUU	213	AAUCUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGUCUC	15521
1691	AAUGGAGU U UGAGGAAC	214	GUUCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCUCAU	15522
1692	AUGGAGUU U GAGGAACC	215	GGUUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUCCAUI	15523
1718	GAAGCAGU C UGUGAUAG	216	CUAUCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCUUC	15524
1725	UCUGUGAU A GCAUUGGG	217	CCCAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCACAGA	15525
1730	GAUAGCAU U GGGCUCAC	218	GUGAGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUAUC	15526
1736	AUUGGGCU C ACAAGAGG	219	CCUCUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCCAAU	15527
1750	AGGAGCU C UGCAUCAA	220	UUGAUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUCCCU	15528
1756	CUCUGCAU C AAGCUUUG	221	CAAAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCAGAG	15529
1762	AUCAAGCU U UGGCUGGA	222	UCCAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUUGAU	15530
1763	UCAAGCUU U GGCUGGAG	223	CUCCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUUGA	15531
1776	GGAGCCAU U CCUGUGGA	224	UCCACAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGCUCU	15532
1777	GAGCCAUU C CUGUGGAA	225	UUCCACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGGCUC	15533
1787	UGUGGAU U UUCAAGCA	226	UGUGUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCCACA	15534
1788	GUGGAUUI U UCAAGCAA	227	UUGCUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUC CAC	15535
1789	UGGAUUUU U CAAGCAAC	228	GUUGCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAUCCA	15536
1790	GGAAUUUU C AAGCAACA	229	UGUUGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAAUUCC	15537
1803	AACACUGU C AAGUUGAC	230	GUCAACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUGUU	15538
1808	UGUCAAGU U GACGUCGG	231	CCGACGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGACA	15539
1814	GUUGACGU C GGGUCAUU	232	AAUGACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUCAAC	15540
1819	CGUCGGGU C AUUGAAG	233	CUUCAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCGACG	15541
1822	CGGGUCAU U UGAAGUGU	234	ACACUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGACCCG	15542
1823	GGGUCAUU U GAAGUGUA	235	UACACUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGACCC	15543
1831	UGAAGUGU A GAGUGAAG	236	CUUCACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUUCA	15544
1850	GGAAAAU U GCAGUUGA	237	UCAACUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUUUCU	15545
1856	AUUGCAGU U GAAGGGAA	238	UUCUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCAAU	15546
1871	AACAACCU A UGCGUCU	239	AGACGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUUGUU	15547
1878	UAUGGCGU C UGUUCAA	240	UUUGAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGCAUA	15548
1882	GCGUCUGU U CAAAGGCU	241	AGCCUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGACGC	15549
1883	CGUCUGUU C AAAGGCUU	242	AAGCCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAGACG	15550
1891	CAAAGGCU U UCAAGUUU	243	AAACUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCUUUG	15551
1892	AAAGGCUU U CAAGUUUC	244	GAAACUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCCUUU	15552
1893	AAGGCUUU C AAGUUUCU	245	UGAAACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGCCUU	15553
1898	UUUCAAGU U UCUUGGGA	246	UCCCAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGAAA	15554
1899	UUCAAGUU U CUUGGGAC	247	GUCCCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUUGAA	15555
1900	UCAAGUUU C UUGGGACU	248	AGUCCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACUUGA	15556

Table III

1902	AAGUUUCU U GGGACUCC	249	GGAGUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAACUU	15557
1909	UUGGGACU C CCGCAGAC	250	GUCUGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCCAA	15558
1924	ACACAGGU C ACGGCACU	251	AGUGCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUGUGU	15559
1940	UGUGGUGU U GGAUUGC	252	GCAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCACA	15560
1946	GUUGGAAU U GCAGUACA	253	UGUACUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCCAAC	15561
1952	AUUGCAGU A CACUGGCA	254	UGCCAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCAAU	15562
1972	AUGGACCU U GCAAAGUU	255	AACUUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUCCAU	15563
1980	UGCAAAGU U CCUAUCUC	256	GAGAUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGCA	15564
1981	GCAAAGUU C CUUUCUG	257	CGAGAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUUUGC	15565
1984	AAGUUCU A UCUCGUCA	258	UGACGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAACUU	15566
1986	GUUCCUUAU C UCGUCAGU	259	ACUGACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGGAAC	15567
1988	UCCUAUCU C GUCAGUGG	260	CCACUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUAGGA	15568
1991	UAUCUCGU C AGUGGCUU	261	AAGCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGAGUAU	15569
1999	CAGUGGCU U CAUUGAAC	262	GUUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCACUG	15570
2000	AGUGGCUU C AUUGAACG	263	CGUUCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCCACU	15571
2003	GGCUUCAU U GAACGACC	264	GGUCGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAAGCC	15572
2013	AACGACCU A ACGCCAGU	265	ACUGGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUCGUU	15573
2030	GGGCAGAU U GGUCACUG	266	CAGUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUGCCC	15574
2034	AGAUGGU C ACUGUCA	267	UUGACAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAAUCU	15575
2040	GUCACUGU C AACCCUUU	268	AAAGGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGAGAC	15576
2047	UCAACCCU U UUGUUUCA	269	UGAAACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUUGA	15577
2048	CAACCCUU U UGUUUCAG	270	CUGAAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGGUUG	15578
2049	AACCCUUU U GUUUCAGU	271	ACUGAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGGGUU	15579
2052	CCUUUUGU U UCAGUGGC	272	GCCACUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAAGG	15580
2053	CUUUUGUU U CAGUGGCC	273	GGCCACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAAAAG	15581
2054	UUUUGUUU C AGUGGCCA	274	UGGCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACAAAA	15582
2074	CCAACGU A AGGUCCUG	275	CAGGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGUUGG	15583
2079	GCUAAGGU C CUGAUUGA	276	UCAAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUUAGC	15584
2085	GUCCUGAU U GAAUUGGA	277	UCCAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGAGAC	15585
2090	GAUUGAAU U GGAACCAC	278	GUGGUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCAUUC	15586
2102	ACCACCCU U UGGAGACU	279	AGUCUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUGGU	15587
2103	CCACCCUU U GGAGACUC	280	GAGUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGGUGG	15588
2111	UGGAGACU C AUACAUAG	281	CUAUGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUCCA	15589
2114	AGACUCAU A CAUAGUGG	282	CCACUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAGUCU	15590
2118	UCAUACAU A GUGGUGGG	283	CCCACCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUAUGA	15591
2145	CAACAGAU C AAUCACCA	284	UGGUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUGUUG	15592
2149	AGAUCAAU C ACCAUUGG	285	CCAAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGAUUC	15593
2155	AUCACCAU U GGCACAAG	286	CUUGUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUGAUU	15594
2165	GCACAAGU C UGGAAGCA	287	UGCUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUGC	15595
2178	AGCAGCAU U GGCAAAGC	288	GCUUUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUGCU	15596
2189	CAAAGCCU U UACAACCA	289	UGGUUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCUUUG	15597
2190	AAAGCCUU U ACAACCAC	290	GUGGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGCUUU	15598
2191	AAGCCUUU A CAACCACC	291	GGUGGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGGCUU	15599
2202	ACCACCCU C AAAGGAGC	292	GCUCCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUGGU	15600
2220	CAGAGACU A GCCGCUCU	293	AGAGCGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUCUG	15601
2227	UAGCCGCU C UAGGAGAC	294	GUCUCCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGGCUA	15602
2229	GCCGCUCU A GGAGACAC	295	GUGUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGCGGC	15603
2242	ACACAGCU U GGGACUUU	296	AAAGUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUGUGU	15604
2249	UUGGGACU U UGGAUCAG	297	CUGAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCCAA	15605
2250	UGGGACUU U GGAUCAGU	298	ACUGAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCCCA	15606
2255	CUUUGGAU C AGUUGGAG	299	CUCCAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCAAG	15607
2259	GGAUCAGU U GGAGGGGU	300	ACCCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGAUCC	15608
2270	AGGGGUGU U CACCUCAG	301	CUGAGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCCCU	15609
2271	GGGGUGUU C ACCUCAGU	302	ACUGAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACCCC	15610
2276	GUUACCU C AGUUGGGA	303	UCCCAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGAAGC	15611
2280	ACCUCAGU U GGAAGGC	304	GCCUCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGAGGU	15612
2292	AAGGCUGU C CAUCAAGU	305	ACUUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCCUU	15613
2296	CUGUCCAU C AAGUGUUC	306	GAACACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGACAG	15614
2303	UCAAGUGU U CGGAGGAG	307	CUCCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUUGA	15615
2304	CAAGUGUU C GGAGGAGC	308	GCUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACUUG	15616
2315	AGGAGCAU U CCGCUCAC	309	GUGAGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUCCU	15617
2316	GGAGCAUU C CGCUCACU	310	AGUGAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGCUCU	15618
2321	AUUCGCU C ACUGUUCG	311	CGAACAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGGAU	15619

Table III

2327	CUCACUGU U CGGAGGCA	312	UGCCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUGAG	15620
2328	UCACUGUU C GGAGGCAU	313	AUGCCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAGUGA	15621
2339	AGGCAUGU C CUGGAUAA	314	UUAUCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUGCCU	15622
2346	UCCUGGAU A ACGCAAGG	315	CCUUGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCAGGA	15623
2357	GCAAGGAU U GCUGGGGG	316	CCCCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCUUGC	15624
2368	UGGGGGCU C UCCUGUUG	317	CAACAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCCCCA	15625
2370	GGGGCUCU C CUGUUGUG	318	CACAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGCCCC	15626
2375	UCUCCUGU U GUGGAUGG	319	CCAUCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGGAGA	15627
2388	AUGGGCAU C AAUGCUCG	320	CGAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCCCAU	15628
2395	UCAUGCU C GUGAUAGG	321	CCUAUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAUUGA	15629
2401	CUCGUGAU A GGUCCAUA	322	UAUGGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCACGAG	15630
2405	UGAUAGGU C CAUAGCUC	323	GAGCUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUAUCA	15631
2409	AGGUCCAU A GCUCUCAC	324	GUGAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGACCU	15632
2413	CCAUAGCU C UCACGUUU	325	AAACGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUAUGG	15633
2415	AUAGCUCU C ACGUUUCU	326	AGAAACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGCUAU	15634
2420	UCUCACGU U UCUCGCAG	327	CUGCGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUGAGA	15635
2421	CUCACGUU U CUCGCAGU	328	ACUGCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGUGAG	15636
2422	UCACGUUU C UCGCAGUU	329	AAUCGCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACGUGA	15637
2424	ACGUUUCU C GCAUUGG	330	CCACUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAAACGU	15638
2430	CUCGCAGU U GGAGGAGU	331	ACUCCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCCAG	15639
2439	GGAGGAGU U CUGCUCUU	332	AAGAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCCUCC	15640
2440	GAGGAGUU C UGCUUCU	333	GAAGAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUCCUC	15641
2445	GUUCUGCU C UUCUCUC	334	GAGAGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGAAC	15642
2447	UCUGCUCU U CCUCUCCG	335	CGGAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGCAGA	15643
2448	CUGCUCUU C CUCUCCGU	336	ACGGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAGCAG	15644
2451	CUCUUCUU C UCCGUGAA	337	UUCACGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAAGAG	15645
2453	CUUCCUCU C CGUGAACG	338	CGUUCACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGGAAG	15646
2487	UGUGCCAU A GACAUCAG	339	CUGAUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGCACA	15647
2493	AUAGACAU C AGCCGGCA	340	UGCCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCUUA	15648
2528	UGGAGUGU U CAUACACA	341	UGUGUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUCCA	15649
2529	GGAGUGUU C AUACACAA	342	UUGUGUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACUCC	15650
2532	GUGUUCAU A CACAAUGA	343	UCAUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAACAC	15651
2551	UGGAGGCU U GGAUGGAC	344	GUCCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCUCCA	15652
2564	GGACCGGU A CAAGUAUU	345	AAUACUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGGUCC	15653
2570	GUACAAGU A UUAACCCUG	346	CAGGGUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUAC	15654
2572	ACAAGUAU U ACCUGAA	347	UUCAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUACUUGU	15655
2573	CAAGUAUU A CCUGAAA	348	UUUCAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUACUUG	15656
2595	CAAGGCCU A GCCAAGAU	349	AUCUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCCUUG	15657
2604	GCCAAGAU C AUUCAGAA	350	UUCUGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUUGGC	15658
2607	AAGAUCAU U CAGAAAGC	351	GCUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAUCUU	15659
2608	AGAUCAUU C AGAAAGCU	352	AGCUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGAUCU	15660
2617	AGAAAGCU C AUAAGGAA	353	UUCUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUUUCU	15661
2620	AAGCUCAU A AGGAAGGA	354	UCCUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAGCUU	15662
2638	UGUGCGGU C UACGAUCA	355	UGAUCGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGCACA	15663
2640	UGCGGUCU A CGAUCAGU	356	ACUGAUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACCGCA	15664
2645	UCUACGAU C AGUUUCCA	357	UGGAAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGUAGA	15665
2649	CGAUCAGU U UCCAGACU	358	AGUCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGAUCG	15666
2650	GAUCAGUU U CCAGACUG	359	CAGUCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGAUC	15667
2651	AUCAGUUU C CAGACUGG	360	CCAGUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACUGAU	15668
2665	UGGAGCAU C AAAUGUGG	361	CCACAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUCCA	15669
2701	UGAACACU C UUUUGAAG	362	CUUCAAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGUUA	15670
2703	AACACUCU U UUGAAGGA	363	UCCUUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGUGUU	15671
2704	ACACUCUU U UGAAGGAG	364	CUCCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAGUGU	15672
2705	CACUCUUU U GAAGGAGA	365	UCUCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGAGUG	15673
2727	GUGGACCU U AGUGUCGU	366	ACGACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUCCAC	15674
2728	UGGACCUU A GUGUCGUG	367	CACGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGUCCA	15675
2733	CUUAGUGU C GUGGUUGA	368	UCAACCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUAAG	15676
2739	GUCGUGGU U GAGAAACA	369	UGUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACGAC	15677
2759	GGGAAUGU A CAAGUCAG	370	CUGACUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCCCC	15678
2765	GUACAAGU C AGCACCUA	371	UAGGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUAC	15679
2773	CAGCACCU A AACGCCUC	372	GAGGCGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGCUG	15680
2781	AAACGCCU C ACCGCCAC	373	GUGGCGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCGUUU	15681
2801	GGAAAAU U GGAAAUUG	374	CAAUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUUCC	15682

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2808	UUGGAAAU U GGCUGGAA	375	UUCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA AUUUCCAA	15683
2833	GAAAGAGU A UUUUAUUU	376	AAAUAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUC	15684
2835	AAGAGUAU U UUAUUUGC	377	GCAAAUAA CUGAUGAG	GCCGUUAGGC	CGAA AUACUCUU	15685
2836	AGAGUAU U UAUUUGCA	378	UGCAAAUA CUGAUGAG	GCCGUUAGGC	CGAA AAUACUCU	15686
2837	GAGUAUUU U AUUUGCAC	379	GUGCAAU CUGAUGAG	GCCGUUAGGC	CGAA AAAUACUC	15687
2838	AGUAUUUU A UUUGCACC	380	GGUGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAAUACU	15688
2840	UAUUUUAU U UGCACCAG	381	CUGGUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUAAAAUA	15689
2841	AUUUUUAU U GCACCAGA	382	UCUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AAUAAAAU	15690
2853	CCAGAACU C GCCAACAA	383	UUGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGUUCUGG	15691
2867	CAACACCU U UGUGGUUG	384	CAACCACA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUUG	15692
2868	AACACCUU U GUGGUUGA	385	UCAACCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGUU	15693
2874	UUUGUGGU U GAUGGUCC	386	GGACCAUC CUGAUGAG	GCCGUUAGGC	CGAA ACCACAAA	15694
2881	UUGAUGGU C CGGAGACC	387	GGUCUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACCAACAA	15695
2899	AGGAAUGU C CGACUCAG	388	CUGAGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCU	15696
2905	GUCGACU C AGAAUCGC	389	GCGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGGAC	15697
2911	CUCAGAAU C GCGCUUGG	390	CCAAGCGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGAG	15698
2917	AUCGCGCU U GGAUAGC	391	GCUAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAU	15699
2923	CUUGGAAU A GCUUAGAA	392	UUCUAAGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAAG	15700
2927	GAAUAGCU U AGAAGUGG	393	CCACUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCUAUUC	15701
2928	AAUAGCUU A GAAGUGGA	394	UCCACUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUAUU	15702
2941	UGGAGGAU U UUGGAUUU	395	AAAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCCA	15703
2942	GGAGGAU U UGGAUUUG	396	CAAAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUCC	15704
2943	GAGGAUUU U GGAUUUGG	397	CCAAAUCC CUGAUGAG	GCCGUUAGGC	CGAA AAAUCCUC	15705
2948	UUUUGGAU U UGGUCUCA	398	UGAGACCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAA	15706
2949	UUUGGAU U GGUCUCAC	399	GUGAGACC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAAA	15707
2953	GAUUUGGU C UCACCAGC	400	GCUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUUC	15708
2955	UUUGGUCU C ACCAGCAC	401	GUGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGACCAAA	15709
2965	CCAGCACU C GGAUGUUC	402	GAACAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUGG	15710
2972	UCGGAUGU U CCUGAAGG	403	CCUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCGA	15711
2973	CGGAUGGU C CUGAAGGU	404	ACCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA AACAUCCG	15712
2982	CUGAAGGU C AGAGAGAG	405	CUCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCAG	15713
3011	AUGUGACU C GAAGAUCA	406	UGAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCACAU	15714
3018	UCGAAGAU C AUUGGAAC	407	GUUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUCGA	15715
3021	AAGAUCAU U GGAACGGC	408	GCCGUUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCUU	15716
3033	ACGGCUGU C AAGAACAA	409	UUGUUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGU	15717
3044	GAACAACU U GGCGAUCC	410	GGAUCGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUUC	15718
3051	UUGGCGAU C CACAGUGA	411	UCACUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUCGCCAA	15719
3065	UGACUGU C CUAUGGA	412	UCCAAUAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGUCA	15720
3068	CCUGUCCU A UUGGAUUG	413	CAAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGACAGG	15721
3070	UGUCCUUA U GGAUUGAA	414	UUCAAUCC CUGAUGAG	GCCGUUAGGC	CGAA AUAGGACA	15722
3075	UAUUGGAU U GAAAGCAG	415	CUGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAUA	15723
3087	AGCAGGCU C AAUGAUAC	416	GUAUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGCU	15724
3094	UCAUAGAU A CGUGGAAG	417	CUUCCACG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUUGA	15725
3105	UGGAAGCU U GAAAGGGC	418	GCCCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUCCA	15726
3117	AGGGCAGU U CUGGGUGA	419	UCACCCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCCU	15727
3118	GGGCAGUU C UGGGUGAA	420	UUCACCCA CUGAUGAG	GCCGUUAGGC	CGAA AACUGCCC	15728
3129	GGUGAAGU C AAAUCAUG	421	CAUGAUUU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCACC	15729
3134	AGUCAAAU C AUGUACGU	422	ACGUACAU CUGAUGAG	GCCGUUAGGC	CGAA AUUUGACU	15730
3139	AAUCAUGU A CGUGGCCU	423	AGGCCACG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAUU	15731
3157	AGACGCAU A CCUUGUGG	424	CCACAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGCGUCU	15732
3161	GCAUACCU U GUGGGGCG	425	CGCCCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUUAGC	15733
3177	GAUGGAAU C CUUGAGAG	426	CUCUCAAG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAUC	15734
3180	GGAAUCCU U GAGAGUGA	427	UCACUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAUUCU	15735
3191	GAGUGACU U GAUAAUAC	428	GUAUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGUCACUC	15736
3195	GACUUGAU A AUACCAGU	429	ACUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGUC	15737
3198	UUGAUAAU A CCAGUCAC	430	GUGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUAUCAA	15738
3204	AUACCAGU C ACACUGGC	431	GCCAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUU	15739
3229	GAAGCAU C ACAUUCGG	432	CCGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUUC	15740
3235	AUCACAAU C GGAGACCU	433	AGGUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUGUGAU	15741
3248	ACCUGGGU A CAAGACAC	434	GUGUCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGGU	15742
3288	GGCCGGGU A GAGAUUGA	435	UCAUUCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCGGCC	15743
3294	GUAGAGAU U GACUUCGA	436	UCGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCUAC	15744
3299	GAUUGACU U CGAUUACU	437	AGUAAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUUC	15745

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3300	AUUGACUU C GAUUACUG	438	CAGUAAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAAU	15746
3304	ACUUCGAU U ACUGCCCA	439	UGGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCGAAGU	15747
3305	CUUCGAUU A CUGCCCA	440	CUGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCGAAG	15748
3319	CAGGAACU A CGGUCACC	441	GGUGACCG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUG	15749
3324	ACUACGGU C ACCCUGAG	442	CUCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAGU	15750
3364	CUGCCACU C GCACCACC	443	GGUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGGCAG	15751
3389	CGGAAAGU U GAUAACAG	444	CUGUUAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCCG	15752
3393	AAGUUGAU A ACAGAUUG	445	CAAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCACU	15753
3400	UAACAGAU U GGUGCUGC	446	GCAGCACC CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUA	15754
3422	CUGCACC U ACCACCAC	447	GUGGUGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCAG	15755
3423	UGCACCU A CCACCACU	448	AGUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGCA	15756
3437	ACUGCCCU A CCAAACUG	449	CAGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAGU	15757
3457	GCGGCUGU U GGUAUGGU	450	ACCAUACC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGC	15758
3461	CUGUUGGU A UGGUAUGG	451	CCAUAACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAACAG	15759
3466	GGUAUGGU A UGGAGAUC	452	GAUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUACC	15760
3474	AUGGAGAU C AGACCACA	453	UGUGGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAU	15761
3504	AAGACCCU C GUGCAGUC	454	GACUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGGUCU	15762
3512	CGUGCAGU C ACAAGUGA	455	UCACUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCACG	15763
3526	UGAAGUCU U AUAAGUCU	456	AGCAUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUA	15764
3527	GAAUGCUU A UAAUGCUG	457	CAGCAUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAUUC	15765
3529	AUGCUUAU A AUGCUGAU	458	AUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUAAGCAU	15766
3538	AUGCUGAU A UGAUUGAC	459	GUCAAUCA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	15767
3543	GAUAUGAU U GACCCUUU	460	AAAGGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUAUC	15768
3550	UGACCCU U UUCAGUUG	461	CAACUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGUCA	15769
3551	UGACCCUU U UCAGUUGG	462	CCAACUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGUCA	15770
3552	GACCCUUU U CAGUUGGG	463	CCCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGUC	15771
3553	ACCCUUUU C AGUUGGGC	464	GCCCAACU CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGU	15772
3557	UUUUCAGU U GGGCCUUC	465	GAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAAA	15773
3564	UUGGGCCU U CUGGUCGU	466	ACGACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGCCCAA	15774
3565	UGGGCCUU C UGGUCGUG	467	CACGACCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCCCA	15775
3570	CUUCUGGU C GUGUUCUU	468	AAGAACAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGAAG	15776
3575	GGUCGUGU U CUUGGCCA	469	UGGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACACGACC	15777
3576	GUCGUGUU C UUGGCCAC	470	GUGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AACACGAC	15778
3578	CGUGUUCU U GGCCACCC	471	GGUGGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGAACACG	15779
3594	CAGGAGGU C CUUCGCAA	472	UUGCGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCUG	15780
3597	GAGGUCCU U CGCAAGAG	473	CUCUUGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGACCUC	15781
3598	AGGUCCUU C GCAAGAGG	474	CCUCUUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCU	15782
3621	GCCAAGAU C AGCAUGCC	475	GGCAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGGC	15783
3634	UGCCAGCU A UACUGAUU	476	AAUCAGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGCA	15784
3636	CCAGCUAU A CUGAUUGC	477	GCAUACAG CUGAUGAG	GCCGUUAGGC	CGAA AUAGCUGG	15785
3642	AUACUGAU U GCUCUGCU	478	AGCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUAU	15786
3646	UGAUUGCU C UGCUAGUC	479	GACUAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUCA	15787
3651	GCUCUGCU A GUCCUGGU	480	ACCAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAGC	15788
3654	CUGCUGAU C CUGGUGUU	481	AACACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAGC	15789
3662	CCUGGUGU U UGGGGGCA	482	UGCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA ACACCCAGG	15790
3663	CUGGUGUU U GGGGGCAU	483	AUGCCCCC CUGAUGAG	GCCGUUAGGC	CGAA AACACCAG	15791
3672	GGGGGCAU U ACUUACAC	484	GUGUAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCCC	15792
3673	GGGGCAUU A CUUACACU	485	AGUGUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCC	15793
3676	GCAUUAU U ACACUGAU	486	AUCAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUAAUGC	15794
3677	CAUUAUU A CACUGAUG	487	CAUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUAAUG	15795
3689	UGAUGUGU U ACGCUAUG	488	CAUAGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACACAUCA	15796
3690	GAUGUGUU A CGCUAUGU	489	ACAUAGCG CUGAUGAG	GCCGUUAGGC	CGAA AACACAUC	15797
3695	GUUACGU A UGUCAUCU	490	AGAUACA CUGAUGAG	GCCGUUAGGC	CGAA AGCUAAC	15798
3699	CGCUAUGU C AUCUUGGU	491	ACCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUAGCG	15799
3702	UAUGUCAU C UUGGUGGG	492	CCCACCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGACAUA	15800
3704	UGUCAUCU U GGUGGGGG	493	CCCCCACC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGACA	15801
3718	GGGCAGCU U UCGCAGAA	494	UUCUGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCCC	15802
3719	GGCAGCUU U CGCAGAAU	495	AUUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGCC	15803
3720	GCAGCUUU C GCAGAAUC	496	GAUUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUGC	15804
3728	CGCAGAAU C UAAUCCGG	497	CCGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCG	15805
3730	CAGAAUCU A AUUCGGGA	498	UCCCGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGAUUCUG	15806
3733	AAUCUAAU U CGGGAGGA	499	UCCUCCCG CUGAUGAG	GCCGUUAGGC	CGAA AUUAGAUU	15807
3734	AUCUAAUU C GGGAGGAG	500	CUCCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AAUAGAU	15808

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3750	GACGUGGU A CACUUGGC	501	GCCAAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUC	15809
3755	GGUACACU U GGCUCUCA	502	UGAGCGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUACC	15810
3762	UUGGCGCU C AUGGCGAC	503	GUCGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCCAA	15811
3773	GGCGACCU U CAAGAUAC	504	GUUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCGCC	15812
3774	GCGACCUU C AAGAUACA	505	UGUAUCUU CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCGC	15813
3780	UUCAAGAU A CAACCAGU	506	ACUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGAA	15814
3791	ACCAGUGU U UAUGGUGG	507	CCACCAUA CUGAUGAG	GCCGUUAGGC	CGAA ACACUGGU	15815
3792	CCAGUGUU U AUGGUGGC	508	GCCACCAU CUGAUGAG	GCCGUUAGGC	CGAA AACACUGG	15816
3793	CAGUGUUU A UGGUGGCA	509	UGCCACCA CUGAUGAG	GCCGUUAGGC	CGAA AAACACUG	15817
3803	GGUGGCAU C GUUUCUCA	510	UGAGAAAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCACC	15818
3806	GCAUCUGU U UCUCAAAG	511	CUUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA AACGAUGC	15819
3807	GCAUCGUU U UCUCAAAGC	512	GCUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACGAUGC	15820
3808	CAUCGUUU C UCUCAAAGC	513	CGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AACGAUG	15821
3810	UCGUUUUC C AAAGCGAG	514	CUCGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACGA	15822
3840	GAGAACA U UUGUUGAU	515	AUCAACAA CUGAUGAG	GCCGUUAGGC	CGAA AUGUUCUC	15823
3841	AGAACA U UUGUUGAU	516	CAUCAACA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUCU	15824
3842	GAACA U UUGUUGAU	517	ACAUCAAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUC	15825
3845	CAUUUUGU U GAUGUUGG	518	CCAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAAAUG	15826
3851	GUUGAUGU U GGCUGCUG	519	CAGCCGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	15827
3861	GCGGCGU U UUCUUCUA	520	UGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGC	15828
3862	CGGCGUU U UCUCUCAA	521	UUGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AACGACCG	15829
3863	GGCUGUUU U CUUUCAAA	522	UUUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAACAGCC	15830
3864	GCUGUUUU C UUUCAAAU	523	AUUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGC	15831
3866	UGUUUUUC U UCAAAUGG	524	CCAUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAACA	15832
3867	GUUUUUUC U CAAAUUGG	525	GCAAUUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAC	15833
3868	UUUUUUUC C AAUUGGCU	526	AGCCA U UUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAA	15834
3877	AAUUGGCU U AUCACGAU	527	AUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCA U U	15835
3878	AAUUGGCU A UCACGAU	528	GAUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCCA U	15836
3880	UGGCUUAU C ACGAUGCC	529	GCAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUAGCCA	15837
3897	CGCCAAU U CUGCUCUG	530	CAGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGCG	15838
3898	GCCAAAU C UGCUCUGG	531	CCAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGCG	15839
3903	AUUCUGCU C UGGGAGAU	532	AUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAU	15840
3912	UGGAGAU C CCUGAUGU	533	ACAUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCCA	15841
3923	UGAUGUGU U GAAUUCAC	534	GUGAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACACAUCA	15842
3928	UGUUGAAU U CACUGGCG	535	CGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCAACA	15843
3929	GUUGAAU C ACUGGCGG	536	CCGCCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAAC	15844
3939	CUGGCGGU A GCUUGGAU	537	AUCCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCAG	15845
3943	CGGUAGCU U GGAUGAUA	538	UAUCAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUACCG	15846
3951	UGGAUGAU A CUGAGAGC	539	GCUCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCCA	15847
3963	AGAGCCAU A ACAUUCAC	540	GUGAAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUCU	15848
3968	CAUAACA U CACAACGA	541	UCGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUUAUG	15849
3969	AUAACA U CACAACGA	542	GUCGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGUUAU	15850
3980	AACGACAU C AAACGUGG	543	CCACGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCGUU	15851
3990	AACGUGGU U GUUCCGCU	544	AGCGGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUU	15852
3993	GUGGUUGU U CCGCUGCU	545	AGCAGCGG CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAC	15853
3994	UGGUUGU C CGCUGCUA	546	UAGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AACACCA	15854
4002	CCGUGCU A GCCCUGCU	547	AGCAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCGG	15855
4011	GCCCUGCU A ACACCCGG	548	CCGGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGGC	15856
4031	GAGAUGCU U GAAUCUGG	549	CCAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCUC	15857
4036	GCUUGAAU C UGGAUGUG	550	CACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAAGC	15858
4046	GGAUGUGU A CAGGAUAC	551	GUUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA ACACAUCC	15859
4053	UACAGGAU A CUGCUGUU	552	AACAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGUA	15860
4061	ACUGCUGU U GAUGGUCG	553	CGACCAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCAGU	15861
4068	UUGAUGGU C GGAUAGG	554	CCUAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAA	15862
4074	GUCGAAU A GGCAGCUU	555	AAGCUGCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCGAC	15863
4082	AGGCAGCU U GAUCAGGG	556	CCCUAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCCU	15864
4086	AGCUUGAU C AGGGAGAA	557	UUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGCU	15865
4129	GAGCAAGU C UGCUAUGC	558	GCAUAGCA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGCUC	15866
4134	AGUCUGCU A UGCUUGGC	559	GCCAAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGACU	15867
4139	GCUAUGCU U GGCUCUAG	560	CUAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA AGCAUAGC	15868
4144	GCUUGGCU C UAGCCUCA	561	UGAGGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGCCAAGC	15869
4146	UUGGCUU A GCCUCAAC	562	GUUGAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCAA	15870
4151	UCUAGCCU C AACAGGAC	563	GUCCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGCUAGA	15871

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4161	ACAGGACU U UUCAACCC	564	GGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUGU	15872
4162	CAGGACUU U UCAACCCC	565	GGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCUG	15873
4163	AGGACUUU U CAACCCCA	566	UGGGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCCU	15874
4164	GGACUUUU C AACCCCAU	567	AUGGGGUU CUGAUGAG	GCCGUUAGGC	CGAA AAAAGUCC	15875
4176	CCAUGAU C CUUGCUGC	568	GCAGCAAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGGG	15876
4179	AUGAUCCU U GCUGCUGG	569	CCAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGGAUCAU	15877
4194	GGACUGAU U GCAUGUGA	570	UCACAUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUCC	15878
4204	CAUGUGAU C CCAACCGU	571	ACGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUUG	15879
4213	CCAACCGU A AACCGGA	572	UCCGCGUU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUUGG	15880
4251	ACAGCUGU C GGCCUAU	573	AUUAGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGU	15881
4257	GUCGGCCU A AUGUUUGC	574	GCAAACAU CUGAUGAG	GCCGUUAGGC	CGAA AGGCCGAC	15882
4262	CCUAAUGU U UGCCAUCG	575	CGAUGSCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUUAAG	15883
4263	CUAAUGUU U GCCAUCGU	576	ACGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA AACAUUAG	15884
4269	UUUGCCAU C GUCGGAGG	577	CCUCCGAC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAAA	15885
4272	GCAUCGU C GGAGGGCU	578	AGCCCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACGAUGGC	15886
4290	GCAGAGCU U GACAUUGA	579	UCAAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGC	15887
4296	CUUGACAU U GACUCCAU	580	AUGGAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAAG	15888
4301	CAUGACU C CAUGGCCA	581	UGGCCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUUG	15889
4311	AUGGCCAU U CCAUUGAC	582	GUCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCAU	15890
4312	UGGCCAUU C CAAUGACU	583	AGUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCCA	15891
4321	CAAUGACU A UCGCGGGG	584	CCCCGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUUG	15892
4323	AUGACUUA C GCGGGGCU	585	AGCCCCGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUCAU	15893
4332	GCGGGGCU C AUGUUUGC	586	GCAAACAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCGC	15894
4337	GCUCAUGU U UGCGUCUU	587	AAGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAGC	15895
4338	CUCAUGUU U GCUGCUUU	588	AAAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AACAUUGG	15896
4345	UUGCUGCU U UCGUGAUU	589	AAUACAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCAA	15897
4346	UGCUGCUU U CGUGAUUU	590	AAAUACAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGCA	15898
4347	GCUGCUUU C GUGAUUUC	591	GAAAUAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCAGC	15899
4353	UUCGUGAU U UCUGGGAA	592	UUCCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AUCACGAA	15900
4354	UCGUGAUU U CUGGGAAA	593	UUUCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAUACGAA	15901
4355	CGUGAUUU C UGGGAAAU	594	AUUUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAUACAG	15902
4364	UGGGAAAU C AACAGAUU	595	UAUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCCCA	15903
4372	CAACAGAU A UGUGGAUU	596	AAUCCACA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUUG	15904
4380	AUGUGGAU U GAGAGAAC	597	GUUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCACAU	15905
4398	GCGGACAU U UCCUGGGA	598	UCCGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCGC	15906
4399	CGGACAUU U CCUGGGAA	599	UUCCCAGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGUCCG	15907
4400	GGACAUUU C CUGGGAAA	600	UUUCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGUCC	15908
4422	GCAGAAAU U ACAGGCUC	601	GAGCCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUUCUGC	15909
4423	CAGAAAUU A CAGGCUCG	602	CGAGCCUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUG	15910
4430	UACAGGCU C GAGCGAAA	603	UUUCGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGUA	15911
4443	GAAAGAGU U GAUGUGCG	604	CGCACAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUC	15912
4455	GUGCGGCU U GAUGAUGA	605	UCAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCGCAC	15913
4472	UGGAAACU U CCAGCUCA	606	UGAGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUAUCC	15914
4473	GGAAACUU C CAGCUCAU	607	AUGAGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAUCC	15915
4479	UUCAGGCU C AUGAAUGA	608	UCAUUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGAA	15916
4489	UGAAUGAU C CAGGAGCA	609	UGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUUA	15917
4501	GAGCACCU U GGAAGAUU	610	UAUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUC	15918
4509	UGGAAGAU A UGGAUGCU	611	AGCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUUAUCC	15919
4518	UGGAUGCU C AGAAUGGU	612	ACCAUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCCA	15920
4527	AGAAUGGU C UGUCUCGC	613	GCGAGACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUUCU	15921
4531	UGGUCUGU C UCGCGAUU	614	AAUCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ACAGACCA	15922
4533	GUCUGUCU C GCGAUUAG	615	CUAAUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGACAGAC	15923
4539	CUCGCGAU U AGUGCGUA	616	UACGCACU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCGAG	15924
4540	UCGCGAUU A GUGCGUAC	617	GUACGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUCGCGA	15925
4547	UAGUGCGU A CACCCCUU	618	AGGGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACGCACUA	15926
4563	UGGCAAU C UUGCCUC	619	GAGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCCA	15927
4565	GGCAAUUCU U GCCUCAG	620	CUGAGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUGCC	15928
4571	CUUGCCCU C AGUAGUUG	621	CAACUACU CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAAG	15929
4575	CCCUCAGU A GUUGGAUU	622	AAUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGGG	15930
4578	UCAGUAGU U GGAUUUUG	623	CAAAUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUACUGA	15931
4583	AGUUGGAU U UUGGAUAA	624	UUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAACU	15932
4584	GUUGGAUU U UGGAUAAC	625	GUUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAAC	15933
4585	UUGGAUUU U GGAUAACU	626	AGUUAUCC CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAAC	15934

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4590	UUUUGGAU A ACUCUCCA	627	UGGAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCAAAA	15935
4594	GGAAACU C UCCAAUAC	628	GUUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUUAUCC	15936
4596	AUAACUCU C CAAUACAC	629	GUGUAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGUUUAU	15937
4601	UCUCCAUA A CACAAAGA	630	UCUUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGGAGA	15938
4622	AGGCGUGU U GUGGGACA	631	UGUCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACGCCU	15939
4633	GGGACACU C CCUCACCA	632	UGGUGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGUCCC	15940
4637	CACUCCCU C ACCAAAGG	633	CCUUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGAGUG	15941
4649	AAAGGAGU A CAAAAAGG	634	CCUUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCUUU	15942
4677	ACCGGCGU C UACAGGAU	635	AUCCUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGCCGGU	15943
4679	CGGCGUCU A CAGGAUCA	636	UGAUCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACGCCG	15944
4686	UACAGGAU C AUGACUCG	637	CGAGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCUGUA	15945
4693	UCAUGACU C GUGGGCUG	638	CAGCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCAUGA	15946
4704	GGGUGCU C GGCAGUUA	639	UAACUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGCCC	15947
4711	UCGGCAGU U AUCAAGCA	640	UGCUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCCGA	15948
4712	CGGCAGUU A UCAAGCAG	641	CUGCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGCCG	15949
4714	GCAGUUAU C AAGCAGGA	642	UCCUGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAACUGC	15950
4737	GUGAUGGU U GAAGGUGU	643	ACACCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAUCAC	15951
4746	GAAGGUGU U UCCACAC	644	GUGUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCUUC	15952
4747	AAGGUGU U UCCACACC	645	GGUGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACCUU	15953
4748	AGGUGUUU U CCACACCC	646	GGGUGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACACCU	15954
4749	GGUGUUUU C CACACCCU	647	AGGGUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAACACC	15955
4758	CACACCCU U UGGCAUAC	648	GUUUGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUGUG	15956
4759	ACACCCUU U GGCAUACA	649	UGUAUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGGUGU	15957
4765	UUUGGCAU A CAACAAAA	650	UUUUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCCAAA	15958
4783	GAGCCGCU U UGAUGAGC	651	GCUCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGGCUC	15959
4784	AGCCGCUU U GAUGAGCG	652	CGUCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCGGCU	15960
4814	GGACCAU A CUGGGCA	653	UGCCCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGGUCC	15961
4827	GGCAGUGU C AAGGAGGA	654	UCCUCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUCC	15962
4837	AGGAGGAU C GACUUUGU	655	ACAAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCUCCU	15963
4842	GAUCGACU U UGUUACGG	656	CCGUAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCGAUC	15964
4843	AUCGACUU U GUUACGGA	657	UCCGUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCGAU	15965
4846	GACUUUGU U ACGGAGGA	658	UCCUCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAGUC	15966
4847	ACUUUGUU A CGGAGGAC	659	GUCCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAAAGU	15967
4865	CUGGAAAU U GCAGCACA	660	UGUGCUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUCAG	15968
4905	CAGAUGAU U GUGGUGGA	661	UCCACCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUCUG	15969
4929	AAGAACGU U AAGAACGU	662	ACGUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUUCUU	15970
4930	AGAACGUU A AGAACGUC	663	GACGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGUUCU	15971
4938	AAGAACGU C CAGACGAA	664	UUCGUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUUCUU	15972
4958	AGGGGUGU U CAAAACAC	665	GUGUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCCCU	15973
4959	GGGUGUUU C AAAACACC	666	GGUGUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACCCC	15974
4980	GGAGAAAU C GGGGCCGU	667	ACGGCCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUCUCC	15975
4993	CCGUGACU U UGGACUUC	668	GAAGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCACGG	15976
4994	CGUGACUU U GGACUUC	669	GGAAGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCACG	15977
5000	UUUGGACU U CCCACUG	670	CAGUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCAAA	15978
5001	UUGGACUU C CCCACUG	671	CCAGUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCCAA	15979
5015	UGGAACAU C AGGCUCAC	672	GUGAGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCCCA	15980
5021	AUCAGGCU C ACCAAUAG	673	CUAUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCUGAU	15981
5028	UCACCAAU A GUGGACAA	674	UUGUCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGGUGA	15982
5052	GAUGUGAU U GGGCUUA	675	UAAAGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCACAU	15983
5058	AUUGGGCU U UAUGGCAA	676	UUGCCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCCAAU	15984
5059	UUGGGCUU U AUGGCAAU	677	AUUGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCCCAA	15985
5060	UGGGCUUU A UGGCAAUG	678	CAUUGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGCCCA	15986
5073	AAUGGAGU C AUAAGCC	679	GGCAUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCCAUU	15987
5076	GGAGUCAU A AUGCCAA	680	UUGGGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGACUCC	15988
5090	CAACGGCU C AUACAUAA	681	UUAUGUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCGUUG	15989
5093	CGGCUCAU A CAUAAGCG	682	CGCUUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAGCCG	15990
5097	UCAUACAU A AGCGCGAU	683	AUCGCGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUAUGA	15991
5106	AGCGCGAU A GUGCAGGG	684	CCUGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGCGCU	15992
5136	GAGCCAAU C CCAGCCGG	685	CCGGCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGGCUC	15993
5147	AGCCGGAU U CGAACCUG	686	CAGGUUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCGCGU	15994
5148	GCCGGAUU C GAACCUGA	687	UCAGGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCGGC	15995
5178	AAACAGAU C ACUGUACU	688	AGUACAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUGUUU	15996
5184	AUCACUGU A CUGGAUCU	689	AGAUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUGAU	15997

Table III

5191	UACUGGAU C UCCAUCCC	690	GGGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGUA	15998
5193	CUGGAUCU C CAUCCCGG	691	CCGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCAG	15999
5197	AUCUCCAU C CCGGCGCC	692	GGCGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGAU	16000
5209	GCGCCGGU A AAACAAGG	693	CCUUGUUU CUGAUGAG	GCCGUUAGGC	CGAA ACCGGCGC	16001
5223	AGGAGGAU U CUGCCACA	694	UGUGGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCCUCCU	16002
5224	GGAGGAUU C UGCCACAG	695	CUGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCCUCC	16003
5235	CCACAGAU C AUCAAAGA	696	UCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUGG	16004
5238	CAGAUCAU C AAAGAGGC	697	GCCUCUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCUG	16005
5250	GAGGCCAU A AACAGAAG	698	CUUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCUC	16006
5277	GCCGUGCU A GCACCAAC	699	GUUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCACGGC	16007
5292	ACCAGGGU U GUGGCUGC	700	GCAGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGGU	16008
5334	CUGCCCAU C CGGUACCA	701	UGGUACCG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGCAG	16009
5339	CAUCCGGU A CCAGACAU	702	AUGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAUG	16010
5348	CCAGACAU C CGCAGUGC	703	GCACUGCG CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUGG	16011
5368	GAGAACAU A AUGGAAAU	704	AUUUCCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUCUC	16012
5382	AAUGAGAU U GUUGAUGU	705	ACAUCAAC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAU	16013
5385	GAGAUUGU U GAUGUCAU	706	AUGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAAUCUC	16014
5391	GUUGAUGU C AUGUGUCA	707	UGACACAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	16015
5398	UCAUGUGU C AUGCUACC	708	GGUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA ACACAUGA	16016
5404	GUCAUGCU A CCCUCACC	709	GGUGAGGG CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGAC	16017
5409	GTUACCCU C ACCCAGAG	710	CUGUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AGGGUAGC	16018
5426	GCUGAUGU C UCCUCACA	711	UGUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAGC	16019
5428	UGAUGUCU C CUCACAGG	712	CCUGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGACAUCA	16020
5431	UGUCUCCU C ACAGGGUG	713	CACCCUGU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGACA	16021
5447	GCCGAACU A CAACCGU	714	ACAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGGC	16022
5456	CAACCGU U CGUGAUGG	715	CCAUCACG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGUUG	16023
5457	AACCGU U CUGAUGGA	716	UCCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AACAGGUU	16024
5473	AUGAGGCU C AUUUCACC	717	GGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCAU	16025
5476	AGGCUCAU U UCACCGAC	718	GUCGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCU	16026
5477	GGCUCAU U CACCGACC	719	GGUCGGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGAGCC	16027
5478	GCUCAUUU C ACCGACCC	720	GGGUCGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGAGC	16028
5491	ACCAGCU A GCAUUGCA	721	UGCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGGU	16029
5496	GCUAGCAU U GCAGCAAG	722	CUUGCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAGC	16030
5509	CAAGAGGU U ACAUUUCC	723	GGAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUUG	16031
5510	AAGAGGUU A CAUUUCCA	724	UGGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AACCUCUU	16032
5514	GGUUAU A UCCACAAA	725	UUUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAACC	16033
5515	GUUAUUAU U CCACAAAG	726	CUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAC	16034
5516	UUACAUUU C CACAAAGG	727	CCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAAUGUAA	16035
5526	ACAAAGGU C GAGCUAGG	728	CCUAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACCUUUGU	16036
5532	GUCGAGCU A GGGAGGC	729	GCCUCCCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGAC	16037
5550	GCGGCAU A UUCAUGAC	730	GUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCGC	16038
5552	GGCAAUAU U CAUGACAG	731	CUGUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUAUUGCC	16039
5553	GCAAUAU C AUGACAGC	732	GCUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUUGC	16040
5578	CAGGCACU U CAGAUCCA	733	UGGAUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCUG	16041
5579	AGGCACU C AGAUCCA	734	AUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AAGUGCCU	16042
5584	CUUCAGAU C CAUCCCA	735	UGGGAUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAG	16043
5588	AGAUCCA U CCCAGAGU	736	ACUCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUCU	16044
5589	GAUCCAU C CCAGAGUC	737	GACUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAUC	16045
5597	CCCAGAGU C CAUUCAC	738	GUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGGG	16046
5602	AGUCCA U CACCAAU	739	AAUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGACU	16047
5603	GUCCA U C ACCAAU	740	AAAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAC	16048
5610	UCACCAU U UCCGACU	741	AAGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUGA	16049
5611	CACCAU U CCGACU	742	UAAGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUG	16050
5612	ACCAU U C CGACU	743	GUAAGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGU	16051
5618	UUCGACU U ACAGACUG	744	CAGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGGA	16052
5619	UCCGACU A CAGACUGA	745	UCAGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGGA	16053
5631	ACUGAGAU C CCGAUCG	746	CGAUCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAGU	16054
5638	UCCCGAU C GAGCUUGG	747	CCAAGCUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCGGGA	16055
5644	AUCGAGCU U GGAACUCU	748	AGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGAU	16056
5651	UUGGAACU C UGGAUACG	749	CGUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAA	16057
5657	CUCUGGAU A CGAAUGGA	750	UCCAUCG CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGAG	16058
5667	GAAUGGAU C ACAGAAUA	751	UAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUC	16059
5675	CACAGAAU A CACCGGA	752	UCCCGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGUG	16060

Table III

5691	AAGACGGU U UGGUUUGU	753	ACAAACCA CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCUU	16061
5692	AGACGGUU U GGUUUUGU	754	CACAAACC CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCU	16062
5696	GGUUUGGU U UGUGCCUA	755	UAGGCACA CUGAUGAG	GCCGUUAGGC	CGAA ACCAAACC	16063
5697	GUUUGGUU U GUGCCUAG	756	CUAGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AACCAAAC	16064
5704	UUGUGCCU A GUGUCAAG	757	CUUGACAC CUGAUGAG	GCCGUUAGGC	CGAA AGGCACAA	16065
5709	CCUAGUGU C AAGAU GGG	758	CCCAUCUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUAGG	16066
5727	AAUGAGAU U GCCCUUUG	759	CAAAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAUU	16067
5733	AUUGCCCU U UGCCUACA	760	UGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAAU	16068
5734	UUGCCCUU U GCCUACAA	761	UUGUAGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCAA	16069
5739	CUUUGCCU A CAACGUGC	762	GCACGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAAAG	16070
5760	AAGAAAGU A GUCCA AUU	763	AAUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCUU	16071
5763	AAAGUAGU C CA AUUGAA	764	UUCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUACUUU	16072
5768	AGUCCAAU U GAACAGAA	765	UUCUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AUUGGACU	16073
5780	CAGAAAGU C GUACGAGA	766	UCUCGUAC CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCUG	16074
5783	AAAGUCGU A CGAGACGG	767	CCGUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGACUUU	16075
5795	GACGAGU A CCCAAA AU	768	AUUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCGUC	16076
5806	CAAAAUUGU A AGAACGAU	769	AUCGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUUUG	16077
5818	ACGAUGAU U GGGACUUU	770	AAAGUCCC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCGU	16078
5825	UUGGGACU U UGUUAUCA	771	UGAUAAAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCCCAA	16079
5826	UGGGACUU U GUUAUCAC	772	GUGAUAA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCCA	16080
5829	GACUUUGU U AUCACAAC	773	GUUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUUC	16081
5830	ACUUUGUU A UCACAACA	774	UGUUGUGA CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGU	16082
5832	UUUGUUAU C ACAACAGA	775	UCUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUAACAAA	16083
5844	ACAGACAU A UCUGAAAU	776	AUUUCAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUGU	16084
5846	AGACAU AU C UGAAAUUG	777	CCAUUUCA CUGAUGAG	GCCGUUAGGC	CGAA AUAUGUCU	16085
5860	UGGGGGCU A ACUUCAAG	778	CUUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCCA	16086
5864	GGCUAACU U CAAGGCCA	779	UCGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAGC	16087
5865	GCUAACUU C AAGGCCAG	780	CUCGCCUU CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAGC	16088
5883	AGGGUGAU U GACAGCCG	781	CGGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCACCCU	16089
5913	CCAACCAU C AUAACAGA	782	UCUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUGG	16090
5916	ACCAUCAU A ACAGAAGG	783	CCUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGU	16091
5940	AGAGUGAU C CUGGGAGA	784	UCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCACUCU	16092
5954	AGAACCAU C UGCAGUGA	785	UCACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUCU	16093
5971	CAGCAGCU A GUGCCGCC	786	GGCGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCUG	16094
5995	GUGGACGU A UCGGUAGA	787	UCUACCGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCAC	16095
5997	GGACGU AU C GGUAGAAA	788	UUUCUACC CUGAUGAG	GCCGUUAGGC	CGAA AUACGUCC	16096
6001	GUUUCGU A GAAAUCCG	789	CGGAUUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCGAUAC	16097
6007	GUAGAAU C CGUCGCAA	790	UUGCGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUCUAC	16098
6011	AAAUCCGU C GCAAGUUG	791	CAACUUGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUUU	16099
6018	UCGCAAGU U GGUGAUGA	792	UCAUCACC CUGAUGAG	GCCGUUAGGC	CGAA ACUUGCAG	16100
6029	UGAUGAGU A CUGUUAUG	793	CAUAACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUCAUCA	16101
6034	AGUACUGU U AUGGGGGG	794	CCCCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUACU	16102
6035	GUACUGUU A UGGGGGGC	795	GCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA AACAGUAC	16103
6062	AGACGACU C GAACUUCG	796	CGAAGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCGUCU	16104
6068	CUCGAACU U CGCCCAUU	797	AAUUGGGC CUGAUGAG	GCCGUUAGGC	CGAA AGUUCGAG	16105
6069	UCGAACUU C GCCCAUUG	798	CAAUGGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUCGA	16106
6076	UCGCCCAU U GGACUGAG	799	CUCAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCGCA	16107
6093	GCACGAU C AUGCUGGA	800	UCCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUCGUGC	16108
6108	GACAACAU C AACAU GCC	801	GGCAUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGUC	16109
6129	GGACUGAU C GCUCAAUU	802	AAUUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUCC	16110
6133	UGAUCGCU C AAUUCUAC	803	GUAGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGAUCA	16111
6137	CGUCACAU U CUACCAAC	804	GUUGGUAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGCG	16112
6138	GCUCAAUU C UACCAACC	805	GGUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAGC	16113
6140	UCAAUUCU A CCAACCAG	806	CUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUUGA	16114
6162	GAGAAGU A UAUACCAU	807	AUGGUUA CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCUC	16115
6164	GAAGGU AU A UACCAUGG	808	CCAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUACCUUC	16116
6166	AGGU AU AU A CCAUGGAU	809	AUCCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AUUAACCU	16117
6182	UGGGGAU A CCGGCUCA	810	UGAGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCCCA	16118
6189	UACCGGCU C AGAGGAGA	811	UCUCCUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCCGGUA	16119
6212	AAAAACU U UCUGGAAC	812	GUUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUUUUU	16120
6213	AAAAACUU U CUGGAACU	813	AGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUUUU	16121
6214	AAAACUUU C UGGAACUG	814	CAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUUUU	16122
6224	GGAACUGU U GAGGACUG	815	CAGUCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUUC	16123

Table III

6238	CUGCAGAU C UGCCAGUU	816	AACUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGCAG	16124
6246	CUGCCAGU U UGGCUGGC	817	GCCAGCCA CUGAUGAG	GCCGUUAGGC	CGAA ACUGGCAG	16125
6247	UGCCAGUU U GGCUGGCU	818	AGCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA AACUGGCA	16126
6256	GGCUGGCU U ACAAGGUU	819	AACCUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGCC	16127
6257	GCUGGCUU A CAAGGUUG	820	CAACCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCAGC	16128
6264	UACAAGGU U GCAGCGGC	821	GCCGCUGC CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGUA	16129
6281	UGGAGUGU C AUACCACG	822	CGUGGUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCA	16130
6284	AGUGUCAU A CCACGACC	823	GGUCGUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGACACU	16131
6305	GUGGUGCU U UGAUGGUC	824	GACCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCACCAC	16132
6306	UGGUGCUU U GAUGGUCC	825	GGACCAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCACC A	16133
6313	UUGAUGGU C CUAGGACA	826	UGUCCUAG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAA	16134
6316	AUGGUCCU A GGACAAAC	827	GUUUGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGACCAU	16135
6330	AACACAAU U UAGAAGA	828	UCUUCUA CUGAUGAG	GCCGUUAGGC	CGAA AUUGUGU	16136
6331	ACACAAU U UAGAAGAC	829	GUCUUCUA CUGAUGAG	GCCGUUAGGC	CGAA AAUUGUGU	16137
6332	CACAAUUU U AGAAGACA	830	UGUCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AAAUUGUG	16138
6333	ACAAUUUU A GAAGACAA	831	UUGUCUUC CUGAUGAG	GCCGUUAGGC	CGAA AAAUUGU	16139
6357	GUGGAAGU C AUCACGAA	832	UUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAC	16140
6360	GAAGUCAU C ACGAAGCU	833	AGCUUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUUC	16141
6369	ACGAAGCU U GGUGAAAG	834	CUUUCACC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUCGU	16142
6384	AGGAAGAU U CUGAGGCC	835	GGCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCU	16143
6385	GGAAGAUU C UGAGGCCG	836	CGGCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCUUC	16144
6402	CGCUGGAU U GACGCCAG	837	CUGGCGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGCG	16145
6416	CAGGGUGU A CUCGGAUC	838	GAUCCGAG CUGAUGAG	GCCGUUAGGC	CGAA ACACCCUG	16146
6419	GGUGUACU C GGAUCACC	839	GGUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGUACACC	16147
6424	ACUCGGAU C ACCAGGCA	840	UGCCUGGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCGAGU	16148
6435	CAGGCACU A AAGGCGUU	841	AACGCCUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCUG	16149
6443	AAAGGCGU U CAAGGACU	842	AGUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGCCUUU	16150
6444	AAGGCGUU C AAGGACUU	843	AAGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA AACGCCUU	16151
6452	CAAGGACU U CGCCUCGG	844	CCGAGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUUG	16152
6453	AAGGACUU C GCCUCGGG	845	CCCAGGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCUU	16153
6458	CUUCGCCU C GGGAAAAC	846	GUUUUCCC CUGAUGAG	GCCGUUAGGC	CGAA AGGCGAAG	16154
6469	GAAACCGU U CUCAGAU	847	UAUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUUUC	16155
6470	AAAACGUU C UCAGAUAG	848	CUAUCUGA CUGAUGAG	GCCGUUAGGC	CGAA AACGUUUU	16156
6472	AACGUUCU C AGAUAGGG	849	CCCUAUCU CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUU	16157
6477	UCUCAGAU A GGCUCUAU	850	AUGAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUCUGAGA	16158
6483	AUAGGGCU C AUUGAGGU	851	ACCUCACU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCUAU	16159
6486	GGGCUCAU U GAGGUUCU	852	AGAACCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCC	16160
6492	AUUGAGGU U CUGGGAAA	853	UUUCCCAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAAU	16161
6493	UUGAGGUU C UGGGAAAG	854	CUUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AACCUCAA	16162
6515	UGAGCACU U CAUGGGGA	855	UCCCCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUC A	16163
6516	GAGCACUU C AUGGGGAA	856	UUCCCCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGUGCUC	16164
6540	GAAGCACU U GACACCAU	857	AUGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUCU	16165
6551	CACCAUGU A CGUUGUGG	858	CCACAACG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGUG	16166
6555	AUGUACGU U GUGGCCAC	859	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACGUACAU	16167
6586	GAAGAGCU C ACAGAAUG	860	CAUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUUC	16168
6619	CAGAUGCU C UUCAGACA	861	UGUCUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUCUG	16169
6621	GAUGCUCU U CAGACAAU	862	AUUGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAUC	16170
6622	AUGCUCUU C AGACAAU	863	AAUUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAU	16171
6630	CAGACAAU U GCCUUGAU	864	AUCAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUUGUCUG	16172
6635	AAUUGCCU U GAUUGCCU	865	AGGCAAUC CUGAUGAG	GCCGUUAGGC	CGAA AGGCAAU	16173
6639	GCCUUGAU U GCCUUAU	866	AAUAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAAGGC	16174
6644	GAUUGCCU U AUUGAGUG	867	CACUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGGCAAUC	16175
6645	AUUGCCUU A UUGAGUGU	868	ACACUCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCAAU	16176
6647	UGCCUUAU U GAGUGUGA	869	UCACACUC CUGAUGAG	GCCGUUAGGC	CGAA AUAAGGCA	16177
6669	AUGGGAGU A UUCUCCU	870	AGGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCCCAU	16178
6671	GGGAGUAU U CUUCCUCC	871	GGAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AUACUCCC	16179
6672	GGAGUAU C UUCUCCU	872	AGGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAUACUCC	16180
6674	AGUAUUCU U CCUCUCA	873	UGAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUACU	16181
6675	GUAUUCUU C CUCCUCAU	874	AUGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAUAC	16182
6678	UUCUCCU C CUCAUGCA	875	UGCAUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAA	16183
6681	UUCUCCU C AUGCAGCG	876	CGCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAA	16184
6699	AAGGGCAU U GGAAAGAU	877	AUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCUU	16185
6708	GGAAAGAU A GGUUUGG	878	CCCAAACC CUGAUGAG	GCCGUUAGGC	CGAA AUCUUUCC	16186

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6712	AGAUAAGU U UGGGAGGC	879	GCCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCUAUCU	16187
6713	GAUAGGUU U GGGAGGCG	880	CGCUCCCC CUGAUGAG	GCCGUUAGGC	CGAA AACCUAUC	16188
6726	GGCGCUGU C UUGGGAGU	881	ACUCCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCCC	16189
6728	CGCUGUCU U GGGAGUCG	882	CGACUCCC CUGAUGAG	GCCGUUAGGC	CGAA AGACAGCG	16190
6735	UUGGGAGU C GCGACCUU	883	AAGGUCGC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCCAA	16191
6743	CGCGACCU U UUUCUGUU	884	AACAGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGUCGCG	16192
6744	GCGACCUU U UUCUGUUG	885	CAACAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCGC	16193
6745	CGACCUUU U UCUGUUGG	886	CCAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGUUC	16194
6746	GACCUUUU U CUGUUGGA	887	UCCAACAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGUC	16195
6747	ACCUUUUU C UGUUGGAU	888	AUCCAACA CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGGU	16196
6751	UUUUCUGU U GGAUGGCU	889	AGCCAUCC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAAA	16197
6765	GCUGAGU U CCAGGAAC	890	GUUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCAGC	16198
6766	CUGAAGUU C CAGGAACG	891	CGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACUUCAG	16199
6780	ACGAAGAU C GCCGGAU	892	AUUCGGGC CUGAUGAG	GCCGUUAGGC	CGAA AUCUUCGU	16200
6791	CGGAAGU U GCUGCUCU	893	AGAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCGG	16201
6798	UUGCUCU C UCCUUCU	894	AGAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCAA	16202
6800	GCUGCUCU C CCUUCUCU	895	AGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAGC	16203
6804	CUCUCCCU U CUCUUGAU	896	AUCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGAG	16204
6805	UCUCCCU C UCUUGAU	897	CAUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAGA	16205
6807	UCCUUCU C UUGAUGAU	898	AUCACA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGGA	16206
6809	CCUUCUCU U GAUGAUUG	899	CAAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAGG	16207
6816	UUGAUGAU U GUGCUAAU	900	AUUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUCA	16208
6822	AUUGUGCU A AUUCUGA	901	UCAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCACAAU	16209
6825	GUGCUAAU U CCUGAGCC	902	GGCUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUAGCAC	16210
6826	UGCUAUU C CUGAGCCA	903	UGGUCAG CUGAUGAG	GCCGUUAGGC	CGAA AAUAGCA	16211
6847	AGCAACGU U CGCAGACA	904	UGUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUGCU	16212
6848	GCAACGU C GCAGACAG	905	CUGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AACGUUGC	16213
6867	AACGAGU A GCCGUGUU	906	AACACGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGGUU	16214
6875	AGCCGUGU U CCUGAUUU	907	AAUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA ACACGGCU	16215
6876	GCCGUGUU C CUGAUUUG	908	CAAAUCAG CUGAUGAG	GCCGUUAGGC	CGAA AACACGGC	16216
6882	UUCUGAU U UGUGUCAU	909	AUGACACA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGAA	16217
6883	UCCUGAUU U GUGUCAUG	910	CAUGACAC CUGAUGAG	GCCGUUAGGC	CGAA AAUCAGGA	16218
6888	AUUUGUGU C AUGACCCU	911	AGGGUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACACAAAU	16219
6897	AUGACCCU U GUGAGCGC	912	GCGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGGUCAU	16220
6928	AGAUGGGU U GGCUAGAU	913	AUCUAGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCCAUCU	16221
6933	GGUUGGCU A GAUAAGAC	914	GUCUUAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCAACC	16222
6937	GGCUAGAU A AGACCAAG	915	CUUGGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUAGCC	16223
6954	AGUGACAU A AGCAUUU	916	AAACUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUGUCACU	16224
6961	UAAGCAGU U UGUUUGG	917	CCCAAACA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUUA	16225
6962	AAGCAGUU U GUUUGGG	918	GCCCAAAC CUGAUGAG	GCCGUUAGGC	CGAA AACUGCUU	16226
6965	CAGUUUGU U UGGGCAA	919	UUUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA ACAAACUG	16227
6966	AGUUUGUU U GGGCAAAG	920	CUUUGCCC CUGAUGAG	GCCGUUAGGC	CGAA AACAAACU	16228
6978	CAAAGAAU U GAGGUCAA	921	UUGACCUC CUGAUGAG	GCCGUUAGGC	CGAA AUUCUUUG	16229
6984	AUUGAGGU C AAGGAGAA	922	UUCUCCUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAAU	16230
6994	AGGAGAAU U UCAGCAUG	923	CAUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUCCU	16231
6995	GGAGAAUU U CAGCAUGG	924	CCAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUCC	16232
6996	GAGAAUUU C AGCAUGGG	925	CCCAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUUC	16233
7010	GGGAGAGU U UCUUUGG	926	CCAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCCC	16234
7011	GGAGAGUU U CUUUGGA	927	UCCAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AACUCUCC	16235
7012	GAGAGUUU C UUUUGGAC	928	GUCCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAACUCUC	16236
7014	GAGUUUCU U UUGGACUU	929	AAGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAACUC	16237
7015	AGUUUCUU U UGGACUUG	930	CAAGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAACU	16238
7016	GUUUCUUU U GGACUUGA	931	UCAAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAC	16239
7022	UUUGGACU U GAGGCCGG	932	CCGGCCUC CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAA	16240
7043	AGCCUGGU C ACUGUACG	933	CGUACAGU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGCU	16241
7049	GUCACUGU A CGCUGUGA	934	UCACACGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGAC	16242
7068	ACAGCGGU C CUCACUCC	935	GGAGUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCGCUUG	16243
7071	GCGGUCCU C ACUCCACU	936	AGUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AGGACCGC	16244
7075	UCCUCACU C CACUGCUA	937	UAGCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAGGA	16245
7083	CCACUGCU A AAGCAUUU	938	AAAUUCUU CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGG	16246
7090	UAAAGCAU U UGAUCACG	939	CGUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUUA	16247
7091	AAAGCAUU U GAUCACGU	940	ACGUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUUU	16248
7095	CAUUUGAU C ACGUCAGA	941	UCUGACGU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUUG	16249

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7100	GAUCACGU C AGAUUACA	942	UGUAAUCU CUGAUGAG	GCCGUUAGGC	CGAA ACGUGAUC	16250
7105	CGUCAGAU U ACAUCAAC	943	GUUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGACG	16251
7106	GUCAGAUU A CAUCAACA	944	UGUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCUGAC	16252
7110	GAUUACAU C AACACCUC	945	GAGGUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAUC	16253
7118	CAACACCU C AUUGACCU	946	AGGUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUUG	16254
7121	CACCUCAU U GACCUCAA	947	UUGAGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGGUG	16255
7127	AUUGACCU C AAUAAACG	948	CGUUUAUU CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAU	16256
7131	ACCUCAAU A AACGUUCA	949	UGAACGUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGGU	16257
7137	AUAAACGU U CAGGCAAG	950	CUUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUUAU	16258
7138	UAAACGUU C AGGCAAGU	951	ACUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AACGUUUA	16259
7152	AGUGCACU A UUCACACU	952	AGUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCACU	16260
7154	UGCACUAU U CACACUCG	953	CGAGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCA	16261
7155	GCACUAUU C ACACUCGC	954	GCGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAGUGC	16262
7161	UUCACACU C GCGCGAGG	955	CCUCGCGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAA	16263
7172	GCGAGGCU U CCCCUCUG	956	CGAAGGGG CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCGC	16264
7173	CGAGGCUU C CCCUUCGU	957	ACGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUCG	16265
7178	CUUCCCCU U CGUCGAUG	958	CAUCGACG CUGAUGAG	GCCGUUAGGC	CGAA AGGGGAAG	16266
7179	UUCCCCCU C GUCGAUGU	959	ACAUCGAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGAA	16267
7182	CCCUUCGU C GAUGUUGG	960	CCAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGGG	16268
7188	GUCGAUGU U GGAGUGUC	961	GACACUCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGAC	16269
7196	UGGAGUGU C GGCUCUCC	962	GGAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCA	16270
7201	UGUCGGCU C UCCUGCUA	963	UAGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCGACA	16271
7203	UCGCGUCU C CUGCUAGC	964	GCUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCGA	16272
7209	CUCUGCUU A GCAGCCGG	965	CCGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGAG	16273
7233	GGACAAGU C ACCCUCAC	966	GUGAGGGU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGUCC	16274
7239	GUCACCCU C ACCGUUAC	967	GUAAACGU CUGAUGAG	GCCGUUAGGC	CGAA AGGGUGAC	16275
7245	CUCACCGU U ACGGUAAC	968	GUUACCGU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGAG	16276
7246	UCACCGUU A CGGUAAAC	969	UGUUACCG CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGAG	16277
7251	GUUACGGU A ACAGCGGC	970	GCCGCUGU CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAAC	16278
7266	GCAACACU C CUUUUUUG	971	CAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUGC	16279
7269	ACACUCCU U UUUUGCCA	972	UGGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGU	16280
7270	CACUCCUU U UUUGCCAC	973	GUGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	16281
7271	ACUCCUUU U UUGCCACU	974	AGUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGU	16282
7272	CUCUUUUU U UGCCACUA	975	UAGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGAG	16283
7273	UCCUUUUU U GCCACUAU	976	AUAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGGA	16284
7280	UUGCCACU A UGCCUACA	977	UGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCAA	16285
7286	CUAUGCCU A CAUGGUUC	978	GAACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUAG	16286
7293	UACAUGGU U CCCGGUUG	979	CAACCGGG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGUA	16287
7294	ACAUGGUU C CCGGUUGG	980	CCAACCGG CUGAUGAG	GCCGUUAGGC	CGAA AACCAUGU	16288
7300	UUCCCGGU U GGCAAGCU	981	AGCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGGAA	16289
7322	AAUGCGCU C AGCCAGC	982	GCUGGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAUU	16290
7350	GCCGGAU C AUGAAGAA	983	UUCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUCCGGC	16291
7365	AACGCUGU A GUGGAUGG	984	CCAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGUU	16292
7377	GAUGGCAU C GUGGCCAC	985	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCAUC	16293
7392	ACGACAGU C CCAGAAUU	986	AAUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCGU	16294
7400	CCCAGAAU U AGAGCGCA	987	UUCGUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGGG	16295
7401	CCAGAAUU A GAGCGCAC	988	GUGCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUGG	16296
7419	ACACCAU C AUGCAGAA	989	UUCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGUGU	16297
7434	AAGAAAGU U GGACAGAU	990	AUCUGUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUUU	16298
7443	GGACAGAU C AUGCUGAU	991	AUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCUGUCC	16299
7452	AUGCUGAU C UUGGUGUC	992	GACACCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	16300
7454	GCUGAUCU U GGUGUCUC	993	GAGACACC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGC	16301
7460	CUUGGUGU C UCUAGCUG	994	CAGCUAGA CUGAUGAG	GCCGUUAGGC	CGAA ACACCAAG	16302
7462	UGGUGUCU C UAGCUGCA	995	UGCAGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGACACCA	16303
7464	GUGUCUCU A GCUGCAGU	996	ACUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAGC	16304
7473	GCUGCAGU A GUAGUGAA	997	UUCACUAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAGC	16305
7476	GCAGUAGU A GUGAACCC	998	GGGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACUACUGC	16306
7487	GAACCCGU C UGUGAAGA	999	UCUUCACA CUGAUGAG	GCCGUUAGGC	CGAA ACGGGUUC	16307
7500	AAGACAGU A CGAGAAGC	1000	GCUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUCUU	16308
7515	GCCGGAU U UUGAUCAC	1001	GUGAUCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCCGGC	16309
7516	CCGGAUUU U UGAUCACG	1002	CGUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCGGG	16310
7517	CGGAUUUU U GAUCACGG	1003	CCGUGAUC CUGAUGAG	GCCGUUAGGC	CGAA AAAUCCCG	16311
7521	AUUUUGAU C ACGGCCGC	1004	GCGGCCGU CUGAUGAG	GCCGUUAGGC	CGAA AUCAAAAU	16312

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7542	GUGACGCU U UGGGAGAA	1005	UUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGUCAC	16313
7543	UGACGCUU U GGGAGAAU	1006	AUUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AAGCGUCA	16314
7562	AGCAAGCU C UGUUUGGA	1007	UCCAAACA CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGCU	16315
7566	AGCUCUGU U UGGAACGC	1008	GCGUUGCA CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGCU	16316
7567	GCUCUGUU U GGAACGCA	1009	UGCGUUC CUGAUGAG	GCCGUUAGGC	CGAA AACAGAGC	16317
7587	ACUGCCAU C GGACUCUG	1010	CAGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAGU	16318
7593	AUCGGACU C UGCCACAU	1011	AUGUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCGAU	16319
7602	UGCCACAU C AUGCGUGG	1012	CCACGCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGCA	16320
7615	GUGGGGGU U GGUUGUCA	1013	UGACAACC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCCAC	16321
7619	GGGUUGGU U GUCAUGUC	1014	GACAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCC	16322
7622	UUGGUUGU C AUGUCUUAU	1015	AUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAA	16323
7627	UGUCAUGU C UAUCCAUA	1016	UAUGGAUA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGACA	16324
7629	UCAUGUCU A UCCAUAAC	1017	GUUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGACAUGA	16325
7631	AUGUCUUAU C CAUAACAU	1018	AUGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUAGACAU	16326
7635	CUAUCCA A ACAUGGAC	1019	GUCCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUAG	16327
7647	UGGACACU C AUAAAGAA	1020	UUCUUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCCA	16328
7650	ACACUCAU A AAGAACAU	1021	AUGUUCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGAGUGU	16329
7674	CCAGGACU A AAAAGAGG	1022	CCUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUGG	16330
7703	ACGCACCU U GGGAGAGG	1023	CCUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCGU	16331
7713	GGAGAGGU U UGGAAGAG	1024	UCUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUCC	16332
7714	GAGAGGUU U GGAAAGAA	1025	UUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA AACCCUCC	16333
7728	GAAAGACU C AACCAGAU	1026	AUCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGUCUUUC	16334
7751	AGAAGAGU U CACUAGGU	1027	ACCUAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUCU	16335
7752	GAAGAGUU C ACUAGGUA	1028	UACCUAGU CUGAUGAG	GCCGUUAGGC	CGAA AACUCUUC	16336
7756	AGUUCACU A GGUACCGC	1029	GCGGUACC CUGAUGAG	GCCGUUAGGC	CGAA AGUGAACU	16337
7760	CACUAGGU A CCGCAAAG	1030	CUUUGCGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUAGUG	16338
7776	GAGGCCAU C AUCGAAGU	1031	ACUUCGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCUC	16339
7779	GCCAUCAU C GAAGUCGA	1032	UCGACUUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGGC	16340
7785	AUCGAAGU C GAUCGCUC	1033	GAGCGAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGAU	16341
7789	AAGUCGAU C GCUCAGCG	1034	CGCUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCGACUU	16342
7793	CGAUCGCU C AGCGGCAA	1035	UUGCCGCU CUGAUGAG	GCCGUUAGGC	CGAA AGCGAUCG	16343
7827	GGCAAUGU C ACUGGAGG	1036	CCUCCAGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGCC	16344
7840	GAGGGCAU C CAGUCUCU	1037	AGAGACUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCUC	16345
7845	CAUCCAGU C UCUAGGGG	1038	CCCCUAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAUG	16346
7847	UCCAGUCU C UAGGGGCA	1039	UGCCCCUA CUGAUGAG	GCCGUUAGGC	CGAA AGACUGGA	16347
7849	CAGUCUCU A GGGGCACA	1040	UGUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA AGAGACUG	16348
7878	UGGCGUGU C GAACGGAG	1041	CUCCGUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCCA	16349
7889	ACGGAGGU U UCUCGAAC	1042	GUUCGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCGU	16350
7890	CGGAGGUU U CUCGAACC	1043	GGUUCGAG CUGAUGAG	GCCGUUAGGC	CGAA AACCUCCG	16351
7891	GGAGGUUU C UCGAACCG	1044	CGGUUCGA CUGAUGAG	GCCGUUAGGC	CGAA AAACCUCC	16352
7893	AGGUUUUCU C GAACCGGU	1045	ACCGGUUC CUGAUGAG	GCCGUUAGGC	CGAA AGAAACCU	16353
7902	GAACCGGU C GGAAAAGU	1046	ACUUUUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGUUC	16354
7914	AAAGUGAU U GACCUUGG	1047	CCAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCACUUU	16355
7920	AUUGACCU U GGAUGUGG	1048	CCACAUC CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAU	16356
7939	GAGGCGGU U GGUGUAC	1049	GUAAACCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCUC	16357
7945	GUUGUGU U ACUAUAUG	1050	CAUAUAGU CUGAUGAG	GCCGUUAGGC	CGAA ACACCAAC	16358
7946	UUGGUGUU A CUUAUUGG	1051	CCAUAUAG CUGAUGAG	GCCGUUAGGC	CGAA AACACCAA	16359
7949	GUGUUAU A UAUGGCAA	1052	UUGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGUAACAC	16360
7951	GUUACUUAU A UGGCAACC	1053	GGUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUAGUAAC	16361
7971	AAAAGAGU C CAAGAAGU	1054	ACUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUUUU	16362
7980	CAAGAGU C AGAGGGUA	1055	UACCCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUUG	16363
7988	CAGAGGGU A CACAAAGG	1056	CCUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCUCUG	16364
8002	AGGGCGGU C CCGGACAU	1057	AUGUCCGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCCU	16365
8025	CCCCAACU A GUGCAAAG	1058	CUUUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGGG	16366
8035	UGCAAAGU U AUGGAUGG	1059	CCAUCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGCA	16367
8036	GCAAAGUU A UGGAUGGA	1060	UCCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGC	16368
8049	UGGAACAU U GUCACCAU	1061	AUGGUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUGUUCCA	16369
8052	AACAUUGU C ACCAUGAA	1062	UUCAUGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUUU	16370
8078	GGAUGUGU U CUACAGAC	1063	GUCUGUAG CUGAUGAG	GCCGUUAGGC	CGAA ACACAUC	16371
8079	GAUGUGUU C UACAGACC	1064	GGUCUGUA CUGAUGAG	GCCGUUAGGC	CGAA AACACAUC	16372
8081	UGUGUUCU A CAGACCUU	1065	AAGGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGAACACA	16373
8089	ACAGACCU U CUGAGUGU	1066	ACACUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCUGU	16374
8090	CAGACCUU C UGAGUGUU	1067	AACACUCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCUG	16375

Table III

8098	CUGAGUGU U GUGACACC	1068	GGUGUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUCAG	16376
8109	GACACCCU C CUUUGUGA	1069	UCACAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGUGUC	16377
8112	ACCCUCCU U UGUGACAU	1070	AUGUCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGGGU	16378
8113	CCCUCCUU U GUGACAUC	1071	GAUGUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGAGGG	16379
8121	UGUGACAU C GGAGAGUC	1072	GACUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCACA	16380
8129	CGGAGAGU C CUCGUCAA	1073	UUGACGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCUCCG	16381
8132	AGAGUCCU C GUCAAGUG	1074	CACUUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGACUCU	16382
8135	GUCCUCGU C AAGUGCUG	1075	CAGCACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGAGGAC	16383
8148	GCUGAGU U GAAGAGCA	1076	UGCUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCAGC	16384
8158	AAGAGCAU A GGACGAUU	1077	AAUCGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCUUU	16385
8166	AGGACGAU U CGGGUCCU	1078	AGGACCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGUCCU	16386
8167	GGACGAUU C GGGUCCUU	1079	AAGGACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCGUCC	16387
8172	AUUCGGGU C CUUGAAAU	1080	AUUUCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCGAAU	16388
8175	CGGGUCCU U GAAAUUGU	1081	ACCAUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGACCCG	16389
8184	GAAAUUGU U GAGGACUG	1082	CAGUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAUUUC	16390
8216	AAGGGAU U UUGCGUGA	1083	UCACGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCCCUU	16391
8217	AGGGAAUU U UGCGUGAA	1084	UUCACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUCCCU	16392
8218	GGGAUUU U GCGUGAAG	1085	CUUCACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUCUCC	16393
8232	AAGGUGCU C UGCCCUA	1086	UAGGGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACCUU	16394
8240	CUGCCCUU A CAUGCCGA	1087	UCGGCAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGGCG	16395
8253	CCGAAAGU C AUAGAGAA	1088	UUCUCUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUCGCG	16396
8256	AAAGUCAU A GAGAAGAU	1089	AUCUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGACUUU	16397
8274	GAGCUGCU C CAACGCCG	1090	CGGCGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGCUC	16398
8285	ACGCCCGU A UGGGGGGG	1091	CCCCCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGGCGU	16399
8301	GGACUGGU C AGAAACCC	1092	GGGUUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAGUCC	16400
8313	AACCCACU C UCACGGAA	1093	UUCCGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGGUU	16401
8315	CCACUCU C ACGGAUU	1094	AAUUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGUGGG	16402
8323	CACGGAU U CCACGCAC	1095	GUGCGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCCGUG	16403
8324	ACGGAUU C CACGCACG	1096	CGUGCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUCCGUU	16404
8339	CGAGAUGU A UUGGGUGA	1097	UCACCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCUCG	16405
8341	AGAUGUAU U GGGUGAGU	1098	ACUCACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUACAUCU	16406
8350	GGGUGAGU C GAGCUUCA	1099	UGAAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCACCC	16407
8356	GUCGAGCU U CAGGCAAU	1100	AUUGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUCGAC	16408
8357	UCGAGCTU C AGGCAAUG	1101	CAUUGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCUCGA	16409
8370	AAUGUGGU A CAUUCAGU	1102	ACUGAAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACAUU	16410
8374	UGGUACAU U CAGUGAAU	1103	AUUCACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUACCA	16411
8375	GGUACAU C AGUGAAUA	1104	UAUUCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUGUACC	16412
8383	CAGUGAAU A UGACCAGC	1105	GCUGGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUCACUG	16413
8400	CAGGUGCU C CUAGGAAG	1106	CUUCCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACCUG	16414
8403	GUGCUCCU A GGAAGAAU	1107	AUUCUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGCAC	16415
8441	ACCCCAAU A CGAGGAAG	1108	CUUCCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGGGGU	16416
8454	GAAGAUGU A AACUUGGG	1109	CCCAAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCUUC	16417
8459	UGUAAACU U GGAAGUG	1110	CACUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUAACA	16418
8496	CCCCUGCU C AACUCAGA	1111	UCUGAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGGGG	16419
8501	CCUCAACU C AGACACCA	1112	UGUGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUGAGC	16420
8512	ACACCAGU A AAUACAAG	1113	CUUGAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGUGUU	16421
8517	AGUAAAAU C AAGAACAG	1114	CUUUCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUUACU	16422
8529	AACAGGAU U GAACGACU	1115	AGUCGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCUGUU	16423
8538	GAACGACU C AGGCGUGA	1116	UCACGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCGUUC	16424
8549	GCGUGAGU A CAGUUCGA	1117	UCGAACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCACGC	16425
8554	AGUACAGU U CGACGUGG	1118	CCACGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGUACU	16426
8555	GUACAGUU C GACGUGGC	1119	GCCACGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGUAC	16427
8585	CCACCAU A UAGAACCU	1120	AGGUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGGUGG	16428
8587	ACCAUAU A GAACGUGG	1121	CCAGGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAUGGGU	16429
8600	CUGGAACU A UCACGGCA	1122	UGCCGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUCGAG	16430
8602	GGAAUAU C ACGGCAGU	1123	ACUGCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGUUCU	16431
8611	ACGGCAGU U AUGAUGUG	1124	CACAUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCCGU	16432
8612	CGGCAGUU A UGAUGUGA	1125	UCACAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGCCG	16433
8633	CACAGGCU C CGCCAGUU	1126	AACUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCUGUG	16434
8641	CCGCCAGU U CGCUGGUC	1127	GACCAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGGCGG	16435
8642	CGCCAGUU C GCUGGUCA	1128	UGACCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUGGCG	16436
8649	UCGUGGU C AAUGGAGU	1129	ACUCCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAGCGA	16437
8661	GGAGUGGU C AGGCUCCU	1130	AGGAGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACUCC	16438

Table III

8667	GUCAGGCU C CUCUCAA	1131	UUUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGAC	16439
8670	AGGUCCU C UCAAAACC	1132	GGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCCU	16440
8672	GCUCCUCU C AAAACCAU	1133	AUGUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGC	16441
8691	GACACCAU C ACGAAUGU	1134	ACAUUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGUC	16442
8700	ACGAAUGU U ACCACCAU	1135	AUGGUGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCGU	16443
8701	CGAAUGUU A CCACCAUG	1136	CAUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA AACAUUCG	16444
8725	CUGACACU A CUCCUUC	1137	GAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCAG	16445
8728	ACACUACU C CCUUCGGG	1138	CCCGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUGU	16446
8732	UACUCCU U CGGGCAGC	1139	GCUGCCG CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGUA	16447
8733	ACUCCCU C GGGCAGCA	1140	UGCUGCC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAGU	16448
8750	GCGAGUGU U CAAAGAGA	1141	UCUCUUU CUGAUGAG	GCCGUUAGGC	CGAA ACACUCGC	16449
8751	CGAGUGUU C AAAGAGAA	1142	UUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA AACACUCG	16450
8776	CGAAAGCU C CUGAACCG	1143	CGGUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUUCG	16451
8801	AGUGAGU A CGUGCUC	1144	UGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCACU	16452
8808	UACGUGCU C AAUGAGAC	1145	GUCUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCACGUA	16453
8828	CAACUGGU U GUGGGCGU	1146	ACGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUUG	16454
8837	GUGGGCGU U UUUGCCA	1147	UGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAC	16455
8838	UGGGCGUU U UUGGCCAG	1148	CUGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AACGCCA	16456
8839	GGGCGUUU U UGGCCAGA	1149	UCUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA AAACGCC	16457
8840	GGCGUUU U GGCCAGAG	1150	CUCUGGC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGCC	16458
8857	AAAACCGU C CCAGAAUG	1151	CAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUUU	16459
8870	AAUGUGCU C UCGAGAGG	1152	CCUCUCGA CUGAUGAG	GCCGUUAGGC	CGAA AGCACAU	16460
8872	UGUGUCU C GAGAGGAA	1153	UUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGAGACA	16461
8882	AGAGGAU U CAUAAGAA	1154	UUCUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCUCU	16462
8883	GAGGAU C AUAAGAA	1155	UUUCUUA CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUC	16463
8886	GAAUUCAU A AGAAAGGU	1156	ACCUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUUC	16464
8895	AGAAAGGU C AACAGCAA	1157	UUGCUGUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUUCU	16465
8911	AUGCAGCU U UGGUGCC	1158	GGCACCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCAU	16466
8912	UGCAGCU U GGGUGCCA	1159	UGGCACCC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGCA	16467
8924	UGCCAGU U UGAAGAGC	1160	GCUCUUA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGCA	16468
8925	GCCAUGU U GAAGAGCA	1161	UGCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGC	16469
8938	AGCAGAAU C AAUGGAGG	1162	CCUCCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCU	16470
8964	GAAGCAGU U GAAGAUCC	1163	GGAUCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUUC	16471
8971	UUGAAGAU C CAAAUUU	1164	AAAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCAA	16472
8978	UCCAAAU U UUGGAGA	1165	UCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGGA	16473
8979	CCAAAUU U UGGAGAU	1166	AUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUGG	16474
8980	CAAAUUU U GGGAGAU	1167	CAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUG	16475
9013	GGGACAU C UGCGGGG	1168	CCCCCGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGCCU	16476
9028	AGGAUGU C ACACUUGC	1169	GCAAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCC	16477
9034	GUCACAU U GCAUUUAC	1170	GUAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGAGC	16478
9039	ACUUGCAU U UACAACAU	1171	AUGUUGUA CUGAUGAG	GCCGUUAGGC	CGAA AUGCAAGU	16479
9040	CUUGCAU U ACAACAU	1172	CAUGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCAAG	16480
9041	UUGCAUU A CAACAUGA	1173	UCAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGCAA	16481
9080	CGGAGAU U CGGAAAGG	1174	CCUUUCCG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUCCG	16482
9081	GGAGAGU C GGAAAGGC	1175	GCCUUCC CUGAUGAG	GCCGUUAGGC	CGAA AACUCUCC	16483
9108	AGAGCAU U UGGUUCAU	1176	AUGAACCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUCU	16484
9109	GAGCAU U GGUUCAUG	1177	CAUGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCUC	16485
9113	CAUUUGGU U CAUGUGGC	1178	GCCACAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUG	16486
9114	AUUUGGU C AUGUGGU	1179	AGCCCAU CUGAUGAG	GCCGUUAGGC	CGAA AACCAAU	16487
9123	AUGUGGU C GGAGCUCG	1180	CGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCACAU	16488
9130	UCGGAGCU C GCUUCUG	1181	CAGAAAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCA	16489
9134	AGCUCGU U UCUGGAGU	1182	ACUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGCGAGCU	16490
9135	GCUCGUU U CUGGAGUU	1183	AACUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCGAGC	16491
9136	CUCGUUU C UGGAGUUC	1184	GAACUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAGCGAG	16492
9143	UCUGGAGU U CGAGGCUC	1185	GAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAGA	16493
9144	CUGGAGU C GAGGCUCU	1186	AGAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA AACUCCAG	16494
9151	UCGAGGU C UGGGUUU	1187	AAAACCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGCA	16495
9157	CUCUGGUU U UUCUCAA	1188	AUUGAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCAGAG	16496
9158	UCUGGGUU U UCUCAAUG	1189	CAUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA AACCCAGA	16497
9159	CUGGGUUU U CUCAAUGA	1190	UCAUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AAACCCAG	16498
9160	UGGGUUU C UCAAGAA	1191	UUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACCCA	16499
9162	GGUUUUCU C AAUGAAGA	1192	UCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACC	16500
9180	CACUGGUU U GGAAGAAA	1193	UUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGUG	16501

Table III

9194	AAAGAACU C AGGAGGAG	1194	CUCCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUCUUU	16502
9207	GGAGGUGU C GAGGGCUU	1195	AAGCCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCUC	16503
9215	CGAGGGCU U GGGCCUCC	1196	GGAGGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCUCG	16504
9222	UUGGGCCU C CAAAAACU	1197	AGUUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCCAA	16505
9235	AACUGGGU U ACAUCCUG	1198	CAGGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCAGU	16506
9236	ACUGGGU A CAUCCUGC	1199	GCAGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCAGU	16507
9240	GGUUAACU C CUGCGUGA	1200	UCACGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUAACC	16508
9252	CGUGAAGU U GGCACCCG	1201	CGGGUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUCACG	16509
9276	GGCAAGAU C UAUGCUGA	1202	UCAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUUGCC	16510
9278	CAAGAUU A UGCUGAUG	1203	CAUCAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUUUUG	16511
9312	ACCCGCAU C ACGAGAGC	1204	GCUCUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCGGGU	16512
9326	AGCUGACU U GGAAAUG	1205	CAUUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCAGCU	16513
9340	AUGAAGCU A AGGUGCUU	1206	AAGCACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUUCAU	16514
9348	AAGGUGCU U GAGCUGCU	1207	AGCAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACCUU	16515
9357	GAGCUGCU U GAUGGGGA	1208	UCCCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGCUC	16516
9370	GGGAACAU C GGCUCUU	1209	AAGACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUUCCC	16517
9376	AUCGGCGU C UUGCCAGG	1210	CCUGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGCCGAU	16518
9378	CGGCGUCU U GCCAGGGC	1211	GCCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACGCCG	16519
9390	AGGGCAU C AUUGAGCU	1212	AGCUAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGCCU	16520
9393	GCCAUCU U GAGCUCAC	1213	GUGAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAUGGC	16521
9399	AUUGAGCU C ACCUAUCG	1214	CGAUAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCUAAU	16522
9404	GCUCACCU A UCGUCACA	1215	UGUGACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGAGC	16523
9406	UCACCUAU C GUCACAAA	1216	UUUGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAGGUGA	16524
9409	CCUAUCGU C ACAAAGUU	1217	AACUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGAUAGG	16525
9417	CACAAAGU U GUGAAAGU	1218	ACUUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGUG	16526
9456	AGAACCGU C AUGGAUGU	1219	ACAUCUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUUCU	16527
9465	UGGAUGU A UUCUCCAG	1220	CUGGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUCCAU	16528
9466	UGGAUGUU A UCUCGAGA	1221	UCUGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAACUCC	16529
9468	GAUGUUAU C UCCAGAGA	1222	UCUCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAACAUC	16530
9470	UGUUAUCU C CAGAGAAG	1223	CUUCUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUACA	16531
9481	GAGAAGAU C AGAGGGGG	1224	CCCCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUUCUC	16532
9501	GGACAAGU U GUCACCUA	1225	UAGGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUCC	16533
9504	CAAGUUGU C ACCUACGC	1226	GCGUAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACUUG	16534
9509	UGUCACCU A CGCCCUAA	1227	UUAGGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGACA	16535
9516	UACGCCCU A AACACUUU	1228	AAAGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGCGUA	16536
9523	UAAACACU U UCACCAAC	1229	GUUGGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGUUUA	16537
9524	AAACACUU U CACCAACC	1230	GGUUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUGUUU	16538
9525	AACACUUU C ACCAACCU	1231	AGGUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGUGUU	16539
9540	CUGGCCGU C CAGCUGGU	1232	ACCAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGCCAG	16540
9576	GGAGUGAU U GGCCAGA	1233	UCUGGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCACUCC	16541
9600	GAGAAACU C ACAAAGG	1234	CCUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUUCUC	16542
9624	CCCAAAGU C AGGACCUG	1235	CAGGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUGGG	16543
9638	CUGGCUGU U UGAGAAUG	1236	CAUUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCCAG	16544
9639	UGGCUUGU U GAGAAUGG	1237	CCAUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACAGCCA	16545
9660	GAAAGACU C AGCCGAU	1238	AUCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUUUC	16546
9675	AUGGCUGU C AGUGGAGA	1239	UCUCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCCAU	16547
9696	UGUGUGGU A AAGCCCCU	1240	AGGGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACACA	16548
9712	UGGACGAU C GCUUGGCC	1241	GGCAAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGUCCA	16549
9716	CGAUCGCU U UGCCACCU	1242	AGGUGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGAUCG	16550
9717	GAUCGCUU U GCCACCUC	1243	GAGUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCGAUC	16551
9725	UGCCACCU C GCUCCACU	1244	AGUGGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGGCA	16552
9729	ACCUCGCU C CACUCCU	1245	AGGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGAGGU	16553
9734	GCUCCACU U CCUCAUG	1246	CAUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGAGC	16554
9735	CUCCACUU C CUCAAUGC	1247	GCAUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUGGAG	16555
9738	CACUUCU C AAUGCUAU	1248	AUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAUGA	16556
9745	UCAAUGCU A UGUCAAAG	1249	CUUUGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAUUGA	16557
9749	UGCUAUGU C AAAGGUUC	1250	GAACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUAGCA	16558
9756	UCAAAGGU U CGCAAAGA	1251	UCUUUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUUUGA	16559
9757	CAAAGGUU C GCAAAGAC	1252	GUCUUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUUUG	16560
9768	AAAGACAU C CAAGAGUG	1253	CACUCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGUCUUU	16561
9785	GAAACCGU C AACUGGAU	1254	AUCCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUUUC	16562
9797	UGGAUGGU A UGAUUGGC	1255	GCCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAUCCA	16563
9802	GGUAUGAU U GGCAGCAG	1256	CUCUGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUACC	16564

Table III

9813	CAGCAGGU U CCAUUTUG	1257	CAAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGUG	16565
9814	AGCAGGUU C CAUUTUUG	1258	GCAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AACCGUGU	16566
9818	GGUCCAUU U UUGCUCAA	1259	UUGAGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACC	16567
9819	GUUCCAUU U UGCUCAAA	1260	UUGAGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAAC	16568
9820	UUCCAUUU U GCUCAAAC	1261	GUUUGAGC CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGAA	16569
9824	AUUUUGCU C AAACCAUU	1262	AAUGGUUU CUGAUGAG	GCCGUUAGGC	CGAA AGCAAAAU	16570
9832	CAAACCAU U UCACUGAA	1263	UUCAGUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUUG	16571
9833	AAACCAUU U CACUGAAU	1264	AUUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGUUU	16572
9834	AACCAUUU C ACUGAAUU	1265	AAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUU	16573
9842	CACUGAAU U GAUCAUGA	1266	AUUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUCAGUG	16574
9846	GAUUGAAU C AUGAAAGA	1267	UCUUAUUA CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUUC	16575
9873	CUGUGUGU U CCAUGCCG	1268	CGGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAG	16576
9874	UGUGUGGU C CAUGCCGA	1269	UCGGCAUG CUGAUGAG	GCCGUUAGGC	CGAA AACCCACA	16577
9896	GGAUAGAU U GGUAGGCA	1270	UGCCUACC CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUCC	16578
9900	GAUUGGUU A GGCAGAGC	1271	GCTCUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAUUC	16579
9910	GCAUGAGU C GCAUAUCU	1272	AGAUADGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUGC	16580
9915	GCUCGCAU A UCUCAGG	1273	CCUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCGAGC	16581
9917	UCGCAUUA C UCCAGGGG	1274	CCCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUADGCGA	16582
9919	GCAUAUCU C CAGGGGCC	1275	GGCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUADGC	16583
9939	UGGAACGU C CGGACAC	1276	GUGUCGG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCA	16584
9952	ACACUGCU U GUCUGGCU	1277	AGCCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGU	16585
9955	CUCGUGU C UGGCUAAG	1278	CUUAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCAG	16586
9961	GUCUGGCU A AGUCUUAU	1279	AUAAGACU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAGAC	16587
9965	GGCUAAGU C UUAUGCCC	1280	GGGCAUAA CUGAUGAG	GCCGUUAGGC	CGAA ACUAGGCC	16588
9967	CUAAGUCU U AUGCCAG	1281	CUGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA AGACUUAU	16589
9968	UAAGUCUU A UGCCCAGA	1282	UCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGACUUA	16590
9987	UGGUGGCU U CUGUACUU	1283	AAGUACAC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCCA	16591
9988	GGCUGCUU C UGUACUUC	1284	GAAGUACA CUGAUGAG	GCCGUUAGGC	CGAA AAGCAGCC	16592
9992	GCUCUGU A CUUCCACA	1285	UGUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGUAGC	16593
9995	UCUGUACU U CCACAGAA	1286	UUCUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUACAGA	16594
9996	CUGUACUU C CACAGAA	1287	CUUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUACAG	16595
10017	CUGCGGCU C AUGGCCAA	1288	UUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCGAG	16596
10032	AACGCCAU U UGCUCGCG	1289	GCGGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCGUU	16597
10033	ACGCCAUU U GCUCCGCU	1290	AGCGGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCGUU	16598
10037	CAUUGGCU C CGCUGUCC	1291	GGACAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUUG	16599
10044	UCCGCGGU C CCUGUGAA	1292	UUCACAGG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGA	16600
10054	CUGUGAAU U GGUUCCCU	1293	AGGGACCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACAG	16601
10059	AAUUGGCU C CCUACCGG	1294	CCGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAUU	16602
10063	GGGUCCCU A CCGGAAGA	1295	UCUUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGGGACCC	16603
10082	CAGGUGGU C CAUCCAU	1296	CAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUG	16604
10086	UGGUCCAU C CAUGCAGG	1297	CCUGCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCA	16605
10124	GGACAUUU U GGAGGUCU	1298	AGACCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUCC	16606
10131	UUGGAGGU C UGGAACCG	1299	CGGUUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCAA	16607
10143	AACCGUGU U UGGAUAGA	1300	UCUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACACGGUU	16608
10144	ACCGUGUU U GGAUAGAG	1301	UCUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AACACGGU	16609
10149	GUUUGAAU A GAGGAGAA	1302	UUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCAAAC	16610
10203	AGUGACGU C CCAUAUUC	1303	GAAUAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUACAU	16611
10208	CGUCCAUU A UUCAGGAA	1304	UUCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGCG	16612
10210	UCCCAUUA U CAGGAAAA	1305	UUUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGGA	16613
10211	CCCAUAUU C AGGAAAAC	1306	GUUUUCCU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGGG	16614
10230	GAGGACAU C UGUUGUGG	1307	CCACACCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCCUU	16615
10248	AGCCUGAU U GGCACAAG	1308	CUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGCU	16616
10284	GAAACAUU C CAGGUGGC	1309	GCCACCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUTUC	16617
10294	AGGUGGCU A UCAACCAA	1310	UUGGUGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCCACCU	16618
10296	GUGGCUAU C AACCAAGU	1311	ACUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AUAGCCAC	16619
10305	AACCAAGU C AGAGCAAU	1312	AUUGGCUU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGGUU	16620
10314	AGAGCAAU C AUGGAGAA	1313	UCUCGGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCUU	16621
10317	GCAUAUUA C GGAGAUGA	1314	UAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGC	16622
10331	UGAGAAGU A UGUUGAUU	1315	AAUCCACA CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUCA	16623
10339	AUGUGGAU U ACAUGAGU	1316	ACUCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCACAU	16624
10340	UGUGGAUU A CAUGAGUU	1317	AACUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCACA	16625
10348	ACAUGAGU U CACUAAAG	1318	CUUUAUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUCAUGU	16626
10349	CAUGAGUU C ACUAAAGA	1319	UCUUUAGU CUGAUGAG	GCCGUUAGGC	CGAA AACUCAUG	16627

Table III

10353	AGUUCACU A AAGAGUA	1320	UAUCUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGAACU	16628
10361	AAAGAGAU A UGAAGACA	1321	UGUCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUCUUU	16629
10375	ACACAACU U UGGUUGAG	1322	CUCAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUGUGU	16630
10376	CACAACUU U GGUUGAGG	1323	CCUCAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUUGUG	16631
10380	ACUUUGGU U GAGGACAC	1324	GUGUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCAAAGU	16632
10392	GACACAGU A CUGUAGAU	1325	AUCUACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGUGUC	16633
10397	AGUACUGU A GAUAUUUA	1326	UAAUAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUACU	16634
10401	CUGUAGAU A UUUAAUCA	1327	UGAUUAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUACAG	16635
10403	GUAGAUU U UAAUCAAU	1328	AUUGAUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAUCUAC	16636
10404	UAGAUUU U AAUCAAUU	1329	AAUUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUAUCUA	16637
10405	AGAUUUU A AUCAAUUG	1330	CAAUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAUAUCU	16638
10408	UAUUAAU C AAUUGUAA	1331	UUACAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUAAUA	16639
10412	UAAUCAU U GUAAUAG	1332	CUAUUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGAUUA	16640
10415	UCAAUUGU A AAUAGACA	1333	UGUCUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAUUGA	16641
10419	UUGUAAU A GACAAUUA	1334	AUAUUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUAACA	16642
10426	UAGACAAU A UAAGUAUG	1335	CAUACUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGUCUA	16643
10428	GACAAUUA A AGUAUGCA	1336	UGCAUACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGUAGUC	16644
10432	AUAUAAGU A UGCAUAAA	1337	UUUAUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUAUUA	16645
10438	GUAUGCAU A AAAGUGUA	1338	UACACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCAUAC	16646
10446	AAAAGUGU A GUUUUAUA	1339	UAUAAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUUUU	16647
10449	AGUGUAGU U UUAUAGUA	1340	UACUAUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUACACU	16648
10450	GUGUAGUU U UAUAGUAG	1341	CUACUAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUACAC	16649
10451	UGUAGUUU U AUAGUAGU	1342	ACUACUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACUACA	16650
10452	GUGUUUU A UAGUAGUA	1343	UACUACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAACUAC	16651
10454	AGUUUAU A GUAGUAU	1344	AAUACUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAAAACU	16652
10457	UUUAUAGU A GUUUUAG	1345	CUAAAUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUAUAAA	16653
10460	AUAGUAGU A UUUAGUGG	1346	CCACUAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUACUAU	16654
10462	AGUAGUAU U UAGUGGUG	1347	CACCACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUACUAU	16655
10463	GUAGUAU U AGUGGUGU	1348	ACACCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUACUAC	16656
10464	UAGUAUUU A GUGGUGUU	1349	AACACCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUACUA	16657
10472	AGUGGUGU U AGUGUAAA	1350	UUUACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCACU	16658
10473	GUGGUGUU A GUGUAAU	1351	AUUUACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACCAC	16659
10478	GUUAGUGU A AAUAGUUA	1352	UAACUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUAAC	16660
10482	GUGUAAU A GUUAGAA	1353	UUUUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUACAC	16661
10485	UAAUAGU U AAGAAAU	1354	AUUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUAUUA	16662
10486	AAUAGUU A AGAAAUU	1355	AAUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUAUUU	16663
10494	AAGAAAU U UUGAGGAG	1356	CUCCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUUUCU	16664
10495	AGAAAUU U UGAGGAGA	1357	UCUCCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUUCU	16665
10496	GAAAUUU U GAGGAGAA	1358	UUCUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUUUC	16666
10508	GAGAAAGU C AGGCCGG	1359	CCCGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUUCUC	16667
10521	CGGGAAGU U CCCGCCAC	1360	GUGGCGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUCCCG	16668
10522	GGGAAGU C CCGCCACC	1361	GGUGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACUCCG	16669
10537	CCGAAGU A GAGUAGAC	1362	GUCUACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCCGG	16670
10542	AGUUGAGU A GACGUGC	1363	GCACCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCAACU	16671
10562	CUGCGACU C AACCCAC	1364	CUGGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGCAG	16672
10602	GAAGUGAU C CAUGUAAG	1365	CUUACAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCACUUC	16673
10608	AUCCAUGU A AGCCUCA	1366	UGAGGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUGGAU	16674
10615	UAAGCCCU C AGAACCGU	1367	ACGGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGCUUA	16675
10624	AGAACCGU C UCGGAAGG	1368	CCUCCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGUUCU	16676
10626	AACCGUCU C GGAAGGAG	1369	CUCCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACGGU	16677
10647	CCACAUGU U GUAACUUC	1370	GAAGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUGUGG	16678
10650	CAUGUGU A ACUCAA	1371	UUUGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACUUG	16679
10654	UUGUAACU U CAAAGCCC	1372	GGGCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUAACA	16680
10655	UGUAACU C AAAGCCA	1373	UGGGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUUAACA	16681
10668	CCCAUGU C AGACCACG	1374	CGUGGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUUGGG	16682
10679	ACCACGCU A CGGCUGC	1375	GCACGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGUGGU	16683
10689	GGCGUGC A CUCUGCGG	1376	CCGCAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCACGCC	16684
10692	GUGCUACU C UGCGGAGA	1377	UCUCCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUAGCAC	16685
10708	AGUGCAGU C UGCGAUAG	1378	CUAUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGCACU	16686
10715	UCUGCGAU A UGCCCCA	1379	UGGGGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGCAGA	16687
10736	GACUGGGU U AACAAAGG	1380	CCUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCAGUC	16688
10737	ACUGGGU A ACAAGGC	1381	GCCUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCCAGU	16689
10769	GCGGCCU A GCCCCGGU	1382	ACCGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGCCGC	16690

Table III

10778	GCCCCGGU A AUGGUGUU	1383	AACACCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGGGGC	16691
10786	AAUGGUGU U AACCAGGG	1384	CCCUGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACCAUU	16692
10787	AUGGUGUU A ACCAGGGC	1385	GCCUGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACCAU	16693
10805	AAAGGACU A GAGGUUAG	1386	CUAACCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCUUU	16694
10811	CUAGAGGU U AGAGGAGA	1387	UCUCCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCUAG	16695
10812	UAGAGGUU A GAGGAGAC	1388	GUCUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCUCUA	16696
10829	CCC CGGUU U UAAAGUGC	1389	GCACUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCGCGGG	16697
10830	CCGCGGUU U AAAGUGCA	1390	UGCACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCGCGG	16698
10831	CGCGGUUU A AAGUGCAC	1391	GUGCACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAACCGCG	16699
10862	GAAGCUGU A GGUCAGGG	1392	CCCUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGCUUC	16700
10866	CUGUAGGU C AGGGGAAG	1393	CUUCCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUACAG	16701
10879	GAAGGACU A GAGGUUAG	1394	CUAACCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCCUUC	16702
10885	CUAGAGGU U AGUGGAGA	1395	UCUCCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUCUAG	16703
10886	UAGAGGUU A GUGGAGAC	1396	GUCUCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCUCUA	16704
10928	AACAGCAU A UUGACACC	1397	GGUGUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGCUGUU	16705
10930	CAGCAUUA U GACACCUG	1398	CAGGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUAUGCUG	16706
10943	CCUGGGAU A GACUAGGA	1399	UCCUAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCCCAGG	16707
10948	GAUAGACU A GGAGAUCU	1400	AGAUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUAUC	16708
10955	UAGGAGAU C UUCUGCUC	1401	GAGCAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCUCCUA	16709
10957	GGAGAUCU U CUGCUCUG	1402	CAGAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUCUCC	16710
10958	GAGAUCUU C UGCUCUGC	1403	GCAGAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAUCUC	16711
10963	CUUCUGCU C UGCACAAC	1404	GUUGUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGAAG	16712

Table IV

Table IV: WNV Inozyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	Rz Seq ID
11	UAGUUCGC C UGUGUGAG	1405	CUCACACA CUGAUGAG GCCGUUAGGC CGAA ICGAACUA	16713
12	AGUUCGCC U GUGUGAGC	1406	GCUCACAC CUGAUGAG GCCGUUAGGC CGAA ICGAACUA	16714
21	GUGUGAGC U GACAAACU	1407	AGUUUGUC CUGAUGAG GCCGUUAGGC CGAA ICUCACAC	16715
25	GAGCUGAC A AACUUAGU	1408	ACUAAAGU CUGAUGAG GCCGUUAGGC CGAA IUCAGCUC	16716
29	UGACAAAC U UAGUAGUG	1409	CACUACUA CUGAUGAG GCCGUUAGGC CGAA IUUUGUCA	16717
53	GGAUUAAC A ACAAUUA	1410	UUAUUUGU CUGAUGAG GCCGUUAGGC CGAA IUUAUUC	16718
56	UUAACAAC A AUUAACAC	1411	GUGUUAU CUGAUGAG GCCGUUAGGC CGAA IUUGUUA	16719
63	CAAUUAAC A CAGUGCGA	1412	UCGCACUG CUGAUGAG GCCGUUAGGC CGAA IUUAUUG	16720
65	AUUAACAC A GUGCGAGC	1413	GCUCGCAC CUGAUGAG GCCGUUAGGC CGAA IUGUUAU	16721
74	GUGCGAGC U GUUUCUUA	1414	UAAGAAAC CUGAUGAG GCCGUUAGGC CGAA ICUCGCAC	16722
80	GCUGUUUC U UAGCACGA	1415	UCGUGCUA CUGAUGAG GCCGUUAGGC CGAA IAAACAGC	16723
85	UUCUUAGC A CGAAGAU	1416	GAUCUUC CUGAUGAG GCCGUUAGGC CGAA ICUAAGAA	16724
94	CGAAGAU C CGAUGUCU	1417	AGACAUC CUGAUGAG GCCGUUAGGC CGAA IAUUUUCG	16725
102	UCGAUGUC U AAGAAACC	1418	GGUUUCU CUGAUGAG GCCGUUAGGC CGAA IACAUCGA	16726
110	UAAGAAAC C AGGAGGGC	1419	GCCCUCU CUGAUGAG GCCGUUAGGC CGAA IUUUCUUA	16727
111	AAGAAACC A GGAGGGCC	1420	GGCCUCC CUGAUGAG GCCGUUAGGC CGAA IGUUUCU	16728
119	AGGAGGGC C CGGCAAGA	1421	UCUUGCCG CUGAUGAG GCCGUUAGGC CGAA ICCUCCU	16729
120	GGAGGGCC C GGCAAGAG	1422	CUCUUGCC CUGAUGAG GCCGUUAGGC CGAA IGCCUCC	16730
124	GGCCCGGC A AGAGCCGG	1423	CCGCGUCU CUGAUGAG GCCGUUAGGC CGAA ICCGGGCC	16731
130	GCAAGAGC C GGGCUGUC	1424	GACAGCCC CUGAUGAG GCCGUUAGGC CGAA ICUCUUGC	16732
135	AGCCGGGC U GUCAAUAU	1425	AUAUUGAC CUGAUGAG GCCGUUAGGC CGAA ICCCGGC	16733
139	GGCUGUC A AUAGCUA	1426	UAGCAUAU CUGAUGAG GCCGUUAGGC CGAA IACAGCCC	16734
146	CAUAUUGC U AAAACGCG	1427	CGCGUUU CUGAUGAG GCCGUUAGGC CGAA ICAUAUUG	16735
161	CGGAUUGC C CCGCGUGU	1428	ACACGCG CUGAUGAG GCCGUUAGGC CGAA ICAUUCG	16736
162	GGAAUGCC C CGCGUGUU	1429	AACACGCG CUGAUGAG GCCGUUAGGC CGAA IGCAUUC	16737
163	GAAUGCCC C GCGUGUUG	1430	CAACACGC CUGAUGAG GCCGUUAGGC CGAA IGGCAUUC	16738
174	GUGUUGUC C UUGAUUGG	1431	CCAAUCAA CUGAUGAG GCCGUUAGGC CGAA IACAACAC	16739
175	UGUUGUCC U UGAUUGGA	1432	UCCAAUCA CUGAUGAG GCCGUUAGGC CGAA IGACAACA	16740
185	GAUUGGAC U GAAGAGGG	1433	CCUCUUC CUGAUGAG GCCGUUAGGC CGAA IUCCAAUC	16741
195	AAGAGGGC U AUGUUGAG	1434	CUCAACAU CUGAUGAG GCCGUUAGGC CGAA ICCUCUU	16742
205	UGUUGAGC C UGAUCGAC	1435	GUCGAUCA CUGAUGAG GCCGUUAGGC CGAA ICACUACA	16743
206	GUUGAGCC U GAUCGACG	1436	CGUCGAUC CUGAUGAG GCCGUUAGGC CGAA IGCUAAC	16744
217	UCGACGGC A AGGGGCCA	1437	UGGCCCU CUGAUGAG GCCGUUAGGC CGAA ICCGUCGA	16745
224	CAAGGGGC C AAUACGAU	1438	AUCGAUUA CUGAUGAG GCCGUUAGGC CGAA ICCCUUG	16746
225	AAGGGGCC A AUACGAU	1439	AAUCGAU CUGAUGAG GCCGUUAGGC CGAA IGCCCUU	16747
243	GUGUUGGC U CUCUUGGC	1440	GCCAAGAG CUGAUGAG GCCGUUAGGC CGAA ICCAACAC	16748
245	GUUGGCUC U CUUGGCGU	1441	ACGCCAA CUGAUGAG GCCGUUAGGC CGAA IAGCCAAC	16749
247	UGGCUCUC U UGGCGUUC	1442	GAACGCCA CUGAUGAG GCCGUUAGGC CGAA IAGAGCCA	16750
256	UGGCGUUC U UCAGGUUC	1443	GAACCGA CUGAUGAG GCCGUUAGGC CGAA IAACGCCA	16751
259	CGUUCUUC A GGUUCACA	1444	UGUGAAC CUGAUGAG GCCGUUAGGC CGAA IAAGAACG	16752
265	UCAGGUUC A CAGCAAU	1445	AAUUGCUG CUGAUGAG GCCGUUAGGC CGAA IAACCUGA	16753
267	AGGUUCAC A GCAAUUGC	1446	GCAAUUGC CUGAUGAG GCCGUUAGGC CGAA IUGAACCU	16754
270	UUCACAGC A AUUGCUC	1447	GGAGCAAU CUGAUGAG GCCGUUAGGC CGAA ICUGUGAA	16755
276	GCAAUUGC U CCGACCCG	1448	CGGUCG CUGAUGAG GCCGUUAGGC CGAA ICAAUUGC	16756
278	AAUUGCUC C GACCCGAG	1449	CUCGGGUC CUGAUGAG GCCGUUAGGC CGAA IAGCAAU	16757
282	GCUCCGAC C CGAGCAGU	1450	ACUGCUC CUGAUGAG GCCGUUAGGC CGAA IUCGGAGC	16758
283	CUCCGACC C GAGCAGUG	1451	CACUGCUC CUGAUGAG GCCGUUAGGC CGAA IGUCGGAG	16759
288	ACCCGAGC A GUGCUGGA	1452	UCCAGCAC CUGAUGAG GCCGUUAGGC CGAA ICUCGGU	16760
293	AGCAGUGC U GGAUCGAU	1453	AUCGAUCC CUGAUGAG GCCGUUAGGC CGAA ICACUGCU	16761
316	GUGUGAAC A AACAAACA	1454	UGUUUGU CUGAUGAG GCCGUUAGGC CGAA IUUCACAC	16762
320	GAACAAAC A AACAGCGA	1455	UCGUGUU CUGAUGAG GCCGUUAGGC CGAA IUUUGUUC	16763
324	AAACAAAC A GCGAUGAA	1456	UUCAUUGC CUGAUGAG GCCGUUAGGC CGAA IUUUGUU	16764
335	GAUGAAAC A CCUUCUGA	1457	UCAGAAG CUGAUGAG GCCGUUAGGC CGAA IUUUAUC	16765
337	UGAAACAC C UUCUGAGU	1458	ACUCAGAA CUGAUGAG GCCGUUAGGC CGAA IUGUUUA	16766
338	GAAACACC U UCUGAGUU	1459	AACUCAGA CUGAUGAG GCCGUUAGGC CGAA IGUGUUUC	16767
341	ACACCUUC U GAGUUUA	1460	UAAAACUC CUGAUGAG GCCGUUAGGC CGAA IAAGGUGU	16768
359	GAAGGAAC U AGGGACCU	1461	AGGUCCU CUGAUGAG GCCGUUAGGC CGAA IUUCCUUC	16769
366	CUAGGGAC C UUGACCAG	1462	CUGGUCAA CUGAUGAG GCCGUUAGGC CGAA IUCCCUAG	16770

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367	UAGGGACC U UGACCAGU	1463	ACUGGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCCUA	16771
372	ACCUUGAC C AGUGCUAU	1464	AUAGCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAAGGU	16772
373	CCUUGACC A GUGCUAUC	1465	GAUAGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCAAGG	16773
378	ACCAGUGC U AUCAAUCG	1466	CGAUJGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACUGGU	16774
382	GUGCUAUC A AUCGGCGG	1467	CCGCCGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGCAC	16775
394	GGCGGAGC U CAAAACAA	1468	UUGUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCGCC	16776
396	CGGAGCUC A AAACAAAA	1469	UUUUGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUCG	16777
401	CUCAAAAC A AAAGAAAA	1470	UUUUCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUGAG	16778
423	GGAAAGAC C GGAAUUGC	1471	GCAAUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUUCC	16779
432	GGAAUUGC A GUCAUGAU	1472	AUCAUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUUCU	16780
436	UUGCAGUC A UGAUUGGC	1473	GCCAAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGCAA	16781
445	UGAUUGGC C UGAUCGCC	1474	GGCGAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUCA	16782
446	GAUUGGCC U GAUCGCCA	1475	UGGCGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAAUC	16783
453	CUGAUCGC C AGCGUAGG	1476	CCUACGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUCAG	16784
454	UGAUCGCC A GCGUAGGA	1477	UCCUACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCGAUCA	16785
465	GUAGGAGC A GUUACCCU	1478	AGGGUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCUAC	16786
471	GCAGUUAC C CUCUCUAA	1479	UUAGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACUGC	16787
472	CAGUUACC C UCUCUAAC	1480	GUUAGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAACUG	16788
473	AGUUACCC U CUCUAACU	1481	AGUUAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUAACU	16789
475	UUACCCUC U CUAACUUC	1482	GAAGUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGUAA	16790
477	ACCCUCUC U AACUCCCA	1483	UGGAAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGGU	16791
481	UCUCUAAC U UCCAAGGG	1484	CCCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAGAGA	16792
484	CUAACUUC C AAGGGAAG	1485	CUUCCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUUAG	16793
485	UAACUUCU A AGGGAAGG	1486	CCUUCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUUA	16794
513	GUAAAUUC U ACUGACGU	1487	ACGUCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUUAC	16795
516	AAUGCUAC U GACGUCAC	1488	GUGACGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGCAUU	16796
523	CUGACGUC A CAGAUGUC	1489	GACAUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUCAG	16797
525	GACGUCAC A GAUGUCAU	1490	AUGACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACGUC	16798
532	CAGAGUC A UCACGAUU	1491	AAUGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUCUG	16799
535	AUGUCAUC A CGAUUCCA	1492	UGGAAUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUACAUC	16800
542	CACGAUUC C AACAGCUG	1493	CAGCUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUCGUG	16801
543	ACGAUUCU A ACAGCUGC	1494	GCAGCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAUCGU	16802
546	AUUCCAAC A GUCGUGG	1495	CCAGCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAAU	16803
549	CCAACAGC U GCUGGAAA	1496	UUUCCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUUGG	16804
552	ACAGCUGC U GGAAAGAA	1497	UUCUUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCUGU	16805
562	GAAAGAAC C UAUGCAUU	1498	AAUGCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUUUC	16806
563	AAAGAACC U AUGCAUUG	1499	CAAUGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUUU	16807
568	ACCUAUGC A UUGUCAGA	1500	UCUGACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGGU	16808
574	GCAUUGUC A GAGCAAUG	1501	CAUUGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUGUC	16809
579	GUCAGAGC A AUGGAUGU	1502	ACAUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGAC	16810
595	UGGGAUAC A UGUGCGAU	1503	AUCGCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUCCCA	16811
609	GAUGAUAC U AUCACUUA	1504	UAAGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUCAUC	16812
613	AUACUAUC A CUUAUGAA	1505	UUCAUAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGUAU	16813
615	ACTUAUCAC U UAUGAAUG	1506	CAUUCUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUAGU	16814
625	AUGAAUGC C CAGUGCUG	1507	CAGCACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUCAU	16815
626	UGAAUGCC C AGUGCUGU	1508	ACAGCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGC AUUCA	16816
627	GAAUGCCC A GUGCUGUC	1509	GACAGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAUUC	16817
632	CCCAGUGC U GUCGGCUG	1510	CAGCCGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACUGGG	16818
639	CUGUCGGC U GGUAUGA	1511	UCAUUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGACAG	16819
650	UAAUGAUC C AGAAGACA	1512	UGUCUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCAUUA	16820
651	AAUGAUCC A GAAGACAU	1513	AUGUCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUCAUU	16821
658	CAGAAGAC A UCGACUGU	1514	ACAGUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUCUG	16822
664	ACAUCGAC U GUUGGUGC	1515	GCACCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGAUGU	16823
673	GUUGGUGC A CAAAGUCA	1516	UGACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACCAAC	16824
675	UGGUGCAC A AAGUCAGC	1517	GCUGACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCACC	16825
681	ACAAAGUC A GCAGUCUA	1518	UAGAGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUUGU	16826
684	AAGUCAGC A GUCUACGU	1519	ACGUAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGACUU	16827
688	CAGCAGUC U ACGUCAGG	1520	CCUGACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGCUG	16828
694	UCUACGUC A GGUAUGGA	1521	UCCAUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUAGA	16829
709	GAAGAUGC A CCAAGACA	1522	UGUCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCUUC	16830
711	AGAUGCAC C AAGACACG	1523	CGUGUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAUCU	16831
712	GAUGCACC A AGACACGC	1524	GCGUGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCAUC	16832

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717	ACCAAGAC	A	CGCCACUC	1525	GAGUGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUUGGU	16833
721	AGACACGC	C	ACUCAAGA	1526	UCUUGAGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGUGUCU	16834
722	GACACGCC	A	CUCAAGAC	1527	GUCUUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGUGUCU	16835
724	CACGCCAC	U	CAAGACGC	1528	GCGUCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCGUG	16836
726	CGCCACUC	A	AGACGCAG	1529	CUGCGUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGCG	16837
733	CAAGACGC	A	GUCGGAGG	1530	CCUCCGAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICGUCUUG	16838
744	CGGAGGUC	A	CUGACAGU	1531	ACUGUCAG	CUGAUGAG	GCCGUUAGGC	CGAA	IACCUCUG	16839
746	GAGGUCAC	U	GACAGUGC	1532	GCACUGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGACCUC	16840
750	UCACUGAC	A	GUGCAGAC	1533	GUCUGCAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCAGUGA	16841
755	GACAGUGC	A	GACACACG	1534	CGUGUGUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICACUGUC	16842
759	GUGCAGAC	A	CACGGAGA	1535	UCUCCGUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUGCAC	16843
761	GCAGACAC	A	CGGAGAAA	1536	UUUCUCCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCUGC	16844
772	GAGAAAGC	A	CUCUAGCG	1537	CGCUAGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUCUC	16845
774	GAAAGCAC	U	CUAGCGAA	1538	UUCGCUAG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUUUC	16846
776	AAGCACUC	U	AGCGAACA	1539	UGUUCGCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGCUU	16847
784	UAGCGAAC	A	AGAAGGGG	1540	CCCCUUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGCUA	16848
795	AAGGGGGC	U	UGGAUGGA	1541	UCCAUCCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCCUU	16849
805	GGAUGGAC	A	GCACCAAG	1542	CUUGGUGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAUC	16850
808	UGGACAGC	A	CCAAGGCC	1543	GGCCUUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCCA	16851
810	GACAGCAC	C	AAGGCCAC	1544	GUGGCCUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUGUC	16852
811	ACAGCACC	A	AGGCCACA	1545	UGUGGCCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUGUC	16853
816	ACCAAGGC	C	ACAAGGUA	1546	UACCUUGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUGGU	16854
817	CCAAGGCC	A	CAAGGUAU	1547	AUACCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUUGG	16855
819	AAGGCCAC	A	AGGUUUUU	1548	AAAUACCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCCUU	16856
837	GUAAAAAC	A	GAUCAUG	1549	CAUGAUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUUUUUAC	16857
843	ACAGAAUC	A	UGGAUCUU	1550	AAGAUGCA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUUCUGU	16858
850	CAUGGAUC	U	UGAGGAAC	1551	GUUCCUCA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUCCAUG	16859
859	UGAGGAAC	C	UGGAUUAU	1552	AUAUCCAG	CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUCCA	16860
860	GAGGAACC	C	UGGAUUAU	1553	CAUAUCCA	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCUCC	16861
861	AGGAACCC	U	GGAUUAGC	1554	GCAUAUCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUCCU	16862
870	GGAUUAGC	C	CUGGUGGC	1555	GCCACCAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAUAUCC	16863
871	GAUAUGCC	C	UGGUGGCA	1556	UGCCACCA	CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUAUC	16864
872	AUAUGCCC	U	GGUGGCAG	1557	CUGCCACC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAUAU	16865
879	CUGGUGGC	A	GCCGUCAU	1558	AUGACGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICACCAG	16866
882	GUGGCAGC	C	GUCAUUGG	1559	CCAUGAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCCAC	16867
886	CAGCCGUC	A	UUGGUUGG	1560	CCAACCAA	CUGAUGAG	GCCGUUAGGC	CGAA	IACGGCUG	16868
899	UUGGAUGC	U	UGGAGGCA	1561	UGCUCCCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAUCCAA	16869
907	UUGGAGC	A	ACACCAUG	1562	CAUGGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCCAA	16870
910	GGAGCAAC	A	CCAUGCAG	1563	CUGCAUGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCUCC	16871
912	AGCAACAC	C	AUGCAGAG	1564	CUCUGCAU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUGCU	16872
913	GCAACACC	A	UGCAGAGA	1565	UCUCUGCA	CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUUGC	16873
917	CACCAUGC	A	GAGAUUG	1566	CAACUCUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAUGGUG	16874
938	UGUCGUGC	U	AUUGCUUU	1567	AAAGCAAU	CUGAUGAG	GCCGUUAGGC	CGAA	ICACGACA	16875
944	GCUAUUGC	U	UUUGGUGG	1568	CCACCAA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUAGC	16876
954	UUGGUGGC	C	CCAGCUUA	1569	UAAGCUGG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCACCAA	16877
955	UGGUGGCC	C	CAGCUUAC	1570	GUAAGCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACCA	16878
956	GGUGGCCC	C	AGCUUACA	1571	UGUAAGCU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCACC	16879
957	GUGGCCCC	A	GCUUACAG	1572	CUGUAAGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCCAC	16880
960	GCCCCAGC	U	UACAGCUU	1573	AAGCUGUA	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGGGC	16881
964	CAGCUUAC	A	GCUUCAAC	1574	GUUGAAGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUAAGCUG	16882
967	CUUACAGC	U	UCAACUGC	1575	GCAGUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUAAG	16883
970	ACAGCUUC	A	ACUGCCUU	1576	AAGGCAGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCUGU	16884
973	GCUUCAAC	U	GCCUUGGA	1577	UCCAAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAGC	16885
976	UAAACUGC	C	UUGGAAUG	1578	CAUUCCAA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUUGA	16886
977	CAACUGCC	U	UGGAAUGA	1579	UCAUCCAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGUUG	16887
988	GAUAGAGC	A	ACAGAGAC	1580	GUCUCUGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICUUAUUC	16888
991	UGAGCAAC	A	GAGACUUC	1581	GAAGUCUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGCUCA	16889
997	ACAGAGAC	U	UCUUGGAA	1582	UUCCAAGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCUGU	16890
1000	GAGACUUC	U	UGGAAGGA	1583	UCCUCCA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUCUC	16891
1014	GGAGUGUC	U	GGAGCAAC	1584	GUUGCUCC	CUGAUGAG	GCCGUUAGGC	CGAA	IACACUCC	16892
1020	UCUGGAGC	A	ACAUGGGU	1585	ACCCAUGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCAGA	16893
1023	GGAGCAAC	A	UGGGUGGA	1586	UCCACCCA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGCUCC	16894

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1040	UUUGGUUC U CGAAGGCG	1587	CGCCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAACCAAA	16895
1051	AAGGCGAC A GCUGCGUG	1588	CACGCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGCCUU	16896
1054	GCGACAGC U GCGUGACU	1589	AGUCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCGC	16897
1062	UGCGUGAC U AUCAUGUC	1590	GACAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCACGCA	16898
1066	UGACUAUC A UGUCUAG	1591	CUUAGACA CUGAUGAG	GCCGUUAGGC	CGAA IAUAGUCA	16899
1071	AUCAUGUC U AAGGACAA	1592	UUGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA IACAUGAU	16900
1078	CUAAGGAC A AGCCUACC	1593	GGUAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUAG	16901
1082	GGACAAGC C UACCAUCG	1594	CGAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGUCC	16902
1083	GACAAGCC U ACCAUCCA	1595	UCGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUC	16903
1086	AAGCCUAC C AUCGAUGU	1596	ACAUCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUAGGCUU	16904
1087	AGCCUACC A UCGAUGUG	1597	CACAUCGA CUGAUGAG	GCCGUUAGGC	CGAA IGUAGGCU	16905
1120	AGGCGGUC A ACCUGGCA	1598	UGCCAGGU CUGAUGAG	GCCGUUAGGC	CGAA IACCGCCU	16906
1123	CGGUCAAC C UGGCAGAG	1599	CUCUGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGACCG	16907
1124	GGUCAACC U GGCAGAGG	1600	CCUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGCC	16908
1128	AACCUGGC A GAGGUCCG	1601	CGGACCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGUU	16909
1135	CAGAGGUC C GCAGUUAU	1602	AUAACUGC CUGAUGAG	GCCGUUAGGC	CGAA IACCUCUG	16910
1138	AGGUCCGC A GUUAUUGC	1603	GCAAUAAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGACCU	16911
1147	GUUAUUGC U AUUUGGCU	1604	AGCCAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICAAUAAC	16912
1155	UAUUUGGC U ACCGUCAG	1605	CUGACGGU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUAU	16913
1158	UUGGCUAC C GUCAGCGA	1606	UCGCUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUAGCCAA	16914
1162	CUACCGUC A GCGAUCUC	1607	GAGAUCGC CUGAUGAG	GCCGUUAGGC	CGAA IACGGUAG	16915
1169	CAGCGAUC U CUCCACCA	1608	UGGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCGUG	16916
1171	GCGAUCUC U CCACCAAA	1609	UUUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCGC	16917
1173	GAUCUCUC C ACCAAAGC	1610	GCUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAUC	16918
1174	AUCUCUCC A CCAAAGCU	1611	AGCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGAU	16919
1176	CUCUCCAC C AAAGCUGC	1612	GCAGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGAG	16920
1177	UCUCCACC A AAGCUGCG	1613	CGCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAGA	16921
1182	ACCAAAGC U GCGUGCCC	1614	GGGCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGGU	16922
1189	CUGCGUGC C CGACCAUG	1615	CAUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA ICACGCAG	16923
1190	UGCGUGCC C GACCAUGG	1616	CCAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCACGCA	16924
1194	UGCCCAGC C AUGGGAGA	1617	UCUCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGGGCA	16925
1195	GGCCGACC A UGGGAGAA	1618	UUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGGC	16926
1206	GGAGAAGC U CACAAUGA	1619	UCAUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUCC	16927
1208	AGAAGCUC A CAAUGACA	1620	UGUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUUCU	16928
1210	AAGCUCAC A AUGACAAA	1621	UUUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCUU	16929
1216	ACAAUGAC A AACGUGCU	1622	AGCACGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUGU	16930
1224	AAACGUGC U GACCCAGC	1623	GCUGGGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACGUUU	16931
1228	GUGCUGAC C CAGCUUUU	1624	AAAAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCAC	16932
1229	UGCUGACC C AGCUUUUG	1625	CAAAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGCA	16933
1230	GCUGACCC A GCUUUUGU	1626	ACAAAAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCAGC	16934
1233	GACCCAGC U UUUGUGUG	1627	CACACAAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGUC	16935
1243	UUGUGUGC A GACAAGGA	1628	UCCUUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACACAA	16936
1247	GUGCAGAC A AGAGUGG	1629	CCACUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAC	16937
1261	UGGUGGAC A GGGGUGG	1630	CCAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCACCA	16938
1267	ACAGGGGC U GGGGCAAC	1631	GUUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUGU	16939
1273	GCUGGGGC A ACGGUGC	1632	GCAGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGC	16940
1279	GCAACGGC U GCGGAUUA	1633	UAAUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUGC	16941
1294	UAUUUGGC A AAGGAAGC	1634	GCUUCCUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUAU	16942
1303	AAGGAAGC A UUGACACA	1635	UGUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCUU	16943
1309	GCAUUGAC A CAUGCGCC	1636	GGCGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUGC	16944
1311	AUUGACAC A UGCGCCAA	1637	UUGGCGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAAU	16945
1317	ACAUGC GC C AAUUUGC	1638	GCAAAUUU CUGAUGAG	GCCGUUAGGC	CGAA ICGCAUGU	16946
1318	CAUGCGCC A AAUUUGCC	1639	GGCAAAUU CUGAUGAG	GCCGUUAGGC	CGAA IGCACAUG	16947
1326	AAUUUUGC C UGCUCUAC	1640	GUAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUUU	16948
1327	AAUUUGCC U GCUCUACC	1641	GGUAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAUU	16949
1330	UUGCCUGC U CUACCAAG	1642	CUUGGUAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGGCAA	16950
1332	GCCUGCUC U ACCAAGGC	1643	GCCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGGC	16951
1335	UGCUCUAC C AAGGCAAU	1644	AUUGCCUU CUGAUGAG	GCCGUUAGGC	CGAA IUAGAGCA	16952
1336	GCUCUACC A AGGCAAUU	1645	UAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGUAGAGC	16953
1341	ACCAAGGC A AUAGGAAG	1646	UUUCCAUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGU	16954
1353	GGAAGAAC C AUUUUGAA	1647	UUCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUC	16955
1354	GAAGAACC A UCUUGAAA	1648	UUUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUUC	16956

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1357	GAACCAUC U UGAAAGAG	1649	CUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGUUC	16957
1372	AGAAUAUC A AGUACGAA	1650	UUCGUACU CUGAUGAG	GCCGUUAGGC	CGAA	IAUAUUCU	16958
1386	GAAGUGGC C AUUUUUGU	1651	ACAAAAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCACUUC	16959
1387	AAGUGGCC A UUUUUGUC	1652	GACAAAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACUUC	16960
1396	UUUUUGUC C AUGGACCA	1653	UGGUCCAU CUGAUGAG	GCCGUUAGGC	CGAA	IACAAAAA	16961
1397	UUUUGUCC A UGGACCAA	1654	UUGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGACAAAA	16962
1403	CCAUGGAC C AACUACUG	1655	CAGUAGUU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAUGG	16963
1404	CAUGGACC A ACUACUGU	1656	ACAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUG	16964
1407	GGACCAAC U ACUGUGGA	1657	UCCACAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGUCC	16965
1410	CCAACUAC U GUGGAGUC	1658	GACUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUUGG	16966
1421	GGAGUCGC A CGGAAACU	1659	AGUUUCCG CUGAUGAG	GCCGUUAGGC	CGAA	ICGACUCC	16967
1429	ACGGAAAC U ACUCCACA	1660	UGUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUUUCCGU	16968
1432	GAAACUAC U CCACACAG	1661	CUGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUUUC	16969
1434	AACUACUC C ACACAGGU	1662	ACCUGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGUAGUU	16970
1435	ACUACUCC A CACAGGUU	1663	AACCUGUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUAGU	16971
1437	UACUCCAC A CAGGUUGG	1664	CCAACCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAGUA	16972
1439	CUCCACAC A GGUUGGAG	1665	CUCCAACC CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGGAG	16973
1449	GUUGGAGC C ACUCAGGC	1666	GCCUGAGU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCAAC	16974
1450	UUGGAGCC A CUCAGGCA	1667	UGCCUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCCAA	16975
1452	GGAGCCAC U CAGGCAGG	1668	CCUGCCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCUCC	16976
1454	AGCCACUC A GGCAGGGA	1669	UCCUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGCU	16977
1458	ACUCAGGC A GGGAGAUU	1670	AAUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGAGU	16978
1468	GGAGAUUC A CACUACAU	1671	AGUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUCCC	16979
1471	GAUUCAGC A UCACUCCU	1672	AGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAAUC	16980
1474	UCAGCAUC A CUCCUGCG	1673	CGCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGCUGA	16981
1476	AGCAUCAC U CCUGCGGC	1674	GCCGCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGCU	16982
1478	CAUCACUC C UGCGGCGC	1675	GCGCCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGAUG	16983
1479	AUCACUCC U GCGGCGCC	1676	GGCGCCGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGAU	16984
1487	UGCGGCGC C UUCAUACA	1677	UGUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICGCCGCA	16985
1488	GCGGCGCC U UCAUACAC	1678	GUGUAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCGCCGC	16986
1491	GCGCCUUC A UACACACU	1679	AGUGUGUA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGCGC	16987
1495	CUUCAUAC A CACUAAAG	1680	CUUUAUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGAAG	16988
1497	UCAUACAC A CUAAAGCU	1681	AGCUUUAU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUAUGA	16989
1499	AUACACAC U AAAGCUUG	1682	CAAGCUUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGUAU	16990
1505	ACUAAAGC U UGGAGAAU	1683	AUUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUAGU	16991
1527	GAGGUGAC A GUGGACUG	1684	CAGUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IUCACCUC	16992
1534	CAGUGGAC U GUGAACCA	1685	UGGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IUCCACUG	16993
1541	CUGUGAAC C ACGGUCAG	1686	CUGACCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUCACAG	16994
1542	UGUGAACC A CGGUCAGG	1687	CCUAGCCG CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCACA	16995
1548	CCACGGUC A GCGAUUGA	1688	UCUAUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGUG	16996
1558	GGAUUGAC A CCAUUGCA	1689	UGCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUCCC	16997
1560	AUUGACAC C AAUGCAUA	1690	UAUGCAUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCAAU	16998
1561	UUGACACC A AUGCAUAC	1691	GUAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUCAA	16999
1566	ACCAUUGC A UACUACGU	1692	ACGUAGUA CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUGGU	17000
1570	AUGCAUAC U ACGUGAUG	1693	CAUCACGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGCAU	17001
1581	GUGAUGAC U GUUGGAAC	1694	GUUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUCAC	17002
1590	GUUGGAAC A AAGACGUU	1695	AACGUCUU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAAC	17003
1600	AGACGUUC U UGUCCAU	1696	AUGGACCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACGUCU	17004
1606	UCUUGGUC C AUCGUGAG	1697	CUCACGAU CUGAUGAG	GCCGUUAGGC	CGAA	IACCAAGA	17005
1607	CUUGGUCC A UCGUGAGU	1698	ACUCACGA CUGAUGAG	GCCGUUAGGC	CGAA	IGACCAAG	17006
1621	AGUGGUUC A UGGACCUC	1699	GAGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACCACU	17007
1627	UCAUGGAC C UCAACCUC	1700	GAGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAUGA	17008
1628	CAUGGACC U CAACCUCC	1701	GGAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUG	17009
1630	UGGACCUC A ACCUCCCU	1702	AGGGAGGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUCCA	17010
1633	ACCUCAAC C UCCUUGG	1703	CCAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAGGU	17011
1634	CCUCAACC U CCCUUGGA	1704	UCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGAGG	17012
1636	UCAACCUC C CUUGGAGC	1705	GCUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUUGA	17013
1637	CAACCUCC C UUGGAGCA	1706	UGCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGUUG	17014
1638	AACCUCCC U UGGAGCAG	1707	CUGCUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGGUU	17015
1645	CUUGGAGC A GUGCUGGA	1708	UCCAGCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCAAG	17016
1650	AGCAGUGC U GGAAGUAC	1709	GUACUCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICACUGCU	17017
1659	GGAAGUAC U GUGUGGAG	1710	CUCCACAC CUGAUGAG	GCCGUUAGGC	CGAA	IUACUCCC	17018

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1672	GGAGGAAC A GAGAGACG	1711	CGUCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUCC	17019
1700	UGAGGAAC C ACACGCCA	1712	UGGCGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUCA	17020
1701	GAGGAACC A CACGCCAC	1713	GUGGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUCCUC	17021
1703	GGAACCAC A CGCCACGA	1714	UCGUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUCC	17022
1707	CCACACGC C ACGAAGCA	1715	UGCUUCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUGG	17023
1708	CACACGCC A CGAAGCAG	1716	CUGCUUCG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUG	17024
1715	CACGAAGC A GUCUGUGA	1717	UCACAGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCGUG	17025
1719	AAGCAGUC U GUGAUAGC	1718	GCUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACUGCUU	17026
1728	GUGAUAGC A UUGGGCUC	1719	GAGCCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUAUCAC	17027
1735	CAUUGGGC U CACAAGAG	1720	CUCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAUG	17028
1737	UUGGGCUC A CAAGAGGG	1721	CCCUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCAA	17029
1739	GGGCUCAC A AGAGGGAG	1722	CUCCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCCC	17030
1749	GAGGGAGC U CUGCAUCA	1723	UGAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUCCUC	17031
1751	GGGAGCUC U GCAUCAAG	1724	CUUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUC	17032
1754	AGCUCUGC A UCAAGCUU	1725	AAGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCU	17033
1757	UCUGCAUC A AGCUUUGG	1726	CCAAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCAGA	17034
1761	CAUCAAGC U UUGGUGG	1727	CCAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAUG	17035
1767	GCUUUGGC U GGAGCCAU	1728	AUGGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAAGC	17036
1773	GCUGGAGC C AUUCCUGU	1729	ACAGGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAGC	17037
1774	CUGGAGCC A UUCCUGUG	1730	CACAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCUCCAG	17038
1778	AGCCAUC C UUGGAAU	1731	AUUCACA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGCTU	17039
1779	GCCAUCC U GUGGAAU	1732	AAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGAAUGGC	17040
1791	GAAUUUUC A AGCAACAC	1733	GUGUUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAUUC	17041
1795	UUUCAAGC A ACACUGUC	1734	GACAGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAAA	17042
1798	CAAGCAAC A CUGUCAAG	1735	CUUGACAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGCUUG	17043
1800	AGCAACAC U GUCAAGUU	1736	AACUUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGCU	17044
1804	ACACUGUC A AGUUGACG	1737	CGUCAACU CUGAUGAG	GCCGUUAGGC	CGAA IACAGUGU	17045
1820	GUCGGGUC A UUUGAAGU	1738	ACUUCAAA CUGAUGAG	GCCGUUAGGC	CGAA IACCCGAC	17046
1853	AAAAUUGC A GUUGAAGG	1739	CCUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUUU	17047
1866	AAGGGAAC A ACCUAUGG	1740	CCAUGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUUU	17048
1869	GGAACAAC C UAUGGCGU	1741	ACGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCCU	17049
1870	GAACAACC U AUGGCGUC	1742	GACGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUCU	17050
1879	AUGGCGUC U GUUCAAG	1743	CUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA IACGCCAU	17051
1884	GUCUGUUC A AAGGCUUU	1744	AAAGCCUU CUGAUGAG	GCCGUUAGGC	CGAA IAACAGAC	17052
1890	UCAAGGC U UUCAAGUU	1745	AACUUGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUUGA	17053
1894	AGGCUUUC A AGUUCUU	1746	AAGAAACU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCCU	17054
1901	CAAGUUUC U UGGGACUC	1747	GAGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAACUUG	17055
1908	CUUGGAGC U CCGCAGA	1748	UCUGCGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCAAG	17056
1910	UGGGACUC C CGCAGACA	1749	UGUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCCA	17057
1911	GGGACUCC C GCAGACAC	1750	GUGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCCC	17058
1914	ACUCCCGC A GACACAGG	1751	CCUGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGGAGU	17059
1918	CCGCAGAC A CAGGUCAC	1752	GUGACCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCGG	17060
1920	GCAGACAC A GGUCACGG	1753	CCGUGACC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUGC	17061
1925	CACAGGUC A CGGCACUG	1754	CAGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA IACCUGUG	17062
1930	GUCACGGC A CUGUGGUG	1755	CACCACAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAC	17063
1932	CACGGCAC U GUGGUGUU	1756	AACACCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGUG	17064
1949	GGAAUUGC A GUACACUG	1757	CAGUGUAC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUCC	17065
1954	UGCAGUAC A CUGGCACG	1758	CGUGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUACUGCA	17066
1956	CAGUACAC U GGCACGGA	1759	UCCGUGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGUACUG	17067
1960	ACACUGGC A CGGAUGGA	1760	UCCAUCCG CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUGU	17068
1970	GGAUGGAC C UUGCAAAG	1761	CUUUGCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUC	17069
1971	GAUGGACC U UGCAAAGU	1762	ACUUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUC	17070
1975	GACCUUGC A AAGUCCU	1763	AGGAACUU CUGAUGAG	GCCGUUAGGC	CGAA ICAAGGUC	17071
1982	CAAAGUUC C UAUCUCGU	1764	ACGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAACUUG	17072
1983	AAAGUUC C AUUCUGUC	1765	GACGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAACUUU	17073
1987	UUCCUAUC U CGUCAGUG	1766	CACUGACG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGAA	17074
1992	AUCUCGUC A GUGGCUUC	1767	GAAGCCAC CUGAUGAG	GCCGUUAGGC	CGAA IACGAGAU	17075
1998	UCAGUGGC U UCAUUGAA	1768	UUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCACUGA	17076
2001	GUGGCUUC A UUGAACGA	1769	UCGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGCCAC	17077
2011	UGAACGAC C UAACGCCA	1770	UGGCGUUA CUGAUGAG	GCCGUUAGGC	CGAA IUCGUUCA	17078
2012	GAACGACC U AACGCCAG	1771	CUGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA IGUCGUUC	17079
2018	CCUAACGC C AGUGGGCA	1772	UGCCACU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUAAG	17080

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2019	CUAACGCC A GUGGGCAG	1773	CUGCCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCGUUAG	17081
2026	CAGUGGGC A GAUUGGUC	1774	GACCAAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACUG	17082
2035	GAUUGGUC A CUGUCAAC	1775	GUUGACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAAUC	17083
2037	UUGGUCAC U GUCAACCC	1776	GGGUUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACCAA	17084
2041	UCACUGUC A ACCCUUUU	1777	AAAAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGUGA	17085
2044	CUGUCAAC C CUUUUGUU	1778	AACAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGACAG	17086
2045	UGUCAACC C UUUUGUUU	1779	AAACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGACA	17087
2046	GUCAACCC U UUUUGUUC	1780	GAAACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUUGAC	17088
2055	UUUGUUUC A GUGGCCAC	1781	GUGGCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACAAA	17089
2061	UCAGUGGC C ACGGCCAA	1782	UUGGCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACUGA	17090
2062	CAGUGGCC A CGGCCAAC	1783	GUUGGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCACUG	17091
2067	GCCACGGC C AACGCUAA	1784	UUAGCGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGUGGC	17092
2068	CCACGGCC A ACGCUAAG	1785	CUUAGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCGUGG	17093
2073	GCCAACGC U AAGGUCCU	1786	AGGACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUGGC	17094
2080	CUAAGGUC C UGAUGAA	1787	UUCAAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUAG	17095
2081	UAAGGUCC U GAUUGAAU	1788	AUUCAAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUUA	17096
2096	AUUGGAAC C ACCCUUUG	1789	CAAAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCAAU	17097
2097	UUGGAACC A CCCUUUGG	1790	CCAAAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCAA	17098
2099	GGAACCAC C CUUUGGAG	1791	CUCCAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUCC	17099
2100	GAACCACC C UUUGGAGA	1792	UCUCCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGUUC	17100
2101	AACCACCC U UUGGAGAC	1793	GUCUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGGUU	17101
2110	UUGGAGAC U CAUACAU	1794	UAUGUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCCAA	17102
2112	GGAGACUC A UCAUAGU	1795	ACUAUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCUCC	17103
2116	ACUCAUAC A UAGUGGUG	1796	CACCACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUGAGU	17104
2128	UGUGGGC A GAGGAGAA	1797	UUCUCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACCA	17105
2138	AGGAGAAC A ACAGAUCA	1798	UGAUCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCCU	17106
2141	AGAACAAC A GAUCAUC	1799	GAUUGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUUCU	17107
2146	AACAGAUC A AUCACCAU	1800	AUGGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGUUC	17108
2150	GAUCAUUC A CCAUUGGC	1801	GCCAAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAUC	17109
2152	UCAUUCAC C AUUGGCAC	1802	GUGCCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUUGA	17110
2153	CAAUCAAC A UUGGCACA	1803	UGUGCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAUUG	17111
2159	CCAUUGGC A CAAGUCUG	1804	CAGACUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUGG	17112
2161	AUUGGCAC A AGUCUGGA	1805	UCCAGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCAAU	17113
2166	CACAAGUC U GGAAGCAG	1806	CUGCUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUGUG	17114
2173	CUGGAAGC A GCAUUGGC	1807	GCCAAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCCAG	17115
2176	GAAGCAGC A UUGGCAA	1808	UUUGCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCUUC	17116
2182	GCAUUGGC A AAGCCUUU	1809	AAAGGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUGC	17117
2187	GGCAAAGC C UUUACAAC	1810	GUUGUAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUGCC	17118
2188	GCAAAGCC U UUAACAAC	1811	GGUUGUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUUUGC	17119
2193	GCCUUUAC A ACCACCCU	1812	AGGUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAAGGC	17120
2196	UUACAAC C ACCCUCAA	1813	UUGAGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUAAA	17121
2197	UUAACAAC A CCCUCAA	1814	UUUGAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGUAA	17122
2199	ACAACCAC C CUCAAAGG	1815	CCUUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUGU	17123
2200	CAACCACC C UCAAAGGA	1816	UCCUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGUUG	17124
2201	AACCACCC U CAAAGGAG	1817	CUCCUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGGUU	17125
2203	CCACCCUC A AAGGAGCG	1818	CGCUCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGUGG	17126
2213	AGGAGCGC A GAGACUAG	1819	CUAGUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUCUCCU	17127
2219	GCAGAGAC U AGCCGCUC	1820	GAGCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCUGC	17128
2223	AGACUAGC C GCUCUAGG	1821	CCUAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGUCU	17129
2226	CUAGCCGC U CUAGGAGA	1822	UCUCCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGCUAG	17130
2228	AGCCGCUC U AGGAGACA	1823	UGUCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCGGCU	17131
2236	UAGGAGAC A CAGCUUGG	1824	CCAAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCCUA	17132
2238	GGAGACAC A GCUUGGGA	1825	UCCCAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCUCC	17133
2241	GACACAGC U UGGGACUU	1826	AAGUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUGUC	17134
2248	CUUGGGAC U UUGGAUCA	1827	UGAUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCCAAG	17135
2256	UUUGGAUC A GUUGGAGG	1828	CCUCCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCAAA	17136
2272	GGUGUUC A CCUCAGUU	1829	AACUGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACCCC	17137
2274	UGUUCAC C UCAGUUGG	1830	CCAACUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAACAC	17138
2275	UGUUCACC U CAGUUGGG	1831	CCCAACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAACAC	17139
2277	UUCACCUC A GUUGGGAA	1832	UUCCCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUGAA	17140
2289	GGGAAGGC U GUCCAUC	1833	UGAUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCCCC	17141
2293	AGGUGUC C AUCAAGUG	1834	CACUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGCCU	17142

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2294	GGCUGUCC A UCAAGUGU	1835	ACACUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGCC	17143
2297	UGUCCAUC A AGUGUUCG	1836	CGAACACU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGACA	17144
2313	GGAGGAGC A UUCGCUC	1837	GAGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCC	17145
2317	GAGCAUUC C GCUCACUG	1838	CAGUGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGCUC	17146
2320	CAUUCGCG U CACUGUUC	1839	GAACAGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGGAAUG	17147
2322	UUCGCGUC A CUGUUCGG	1840	CCGAACAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGAA	17148
2324	CCGCUCAC U GUUCGGAG	1841	CUCCGAAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCGG	17149
2335	UCGGAGGC A UGUCCUGG	1842	CCAGGACA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCCGA	17150
2340	GGCAUGUC C UGGAUAAC	1843	GUUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IACAUGCC	17151
2341	GCAUGUCC U GGAUAACG	1844	CGUUAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGACAUGC	17152
2351	GAUAACGC A AGGAUUGC	1845	GCAAUCCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUAUC	17153
2360	AGGAUUGC U GGGGCGUC	1846	GAGCCCCC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCCU	17154
2367	CUGGGGGC U CUCCUGUU	1847	AACAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAG	17155
2369	GGGGGCGC U CCUGUUGU	1848	ACAACAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCCC	17156
2371	GGGCGUC C UGUUGUGG	1849	CCACAACA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCCC	17157
2372	GGCUCUC U GUUGUGGA	1850	UCCACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGCC	17158
2386	GGAUGGGC A UCAAUGCU	1851	AGCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAUC	17159
2389	UGGGCAUC A AUGCUCGU	1852	ACGAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCCA	17160
2394	AUCAUUGC U CGUGAUAG	1853	CUAUCACG CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGAU	17161
2406	GAUAGGUC C AUAGCUCU	1854	AGAGCUAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUAUC	17162
2407	AUAGGUCC A UAGCUCUC	1855	GAGAGCUA CUGAUGAG	GCCGUUAGGC	CGAA IGACCUAU	17163
2412	UCCAUAGC U CUCACGUU	1856	AACGUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUAUGGA	17164
2414	CAUAGCUC U CACGUUUC	1857	GAAACGUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUAUG	17165
2416	UAGCUCUC A CGUUUCUC	1858	GAGAAACG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCUA	17166
2423	CACGUUUC U CGCAGUUG	1859	CAACUAGC CUGAUGAG	GCCGUUAGGC	CGAA IAAACGUG	17167
2427	UUUCUCGC A GUUGGAGG	1860	CCUCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGAGAAA	17168
2441	AGGAGUUC U GCUCUUC	1861	GGAAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAACUCCU	17169
2444	AGUUCUGC U CUUCCUCU	1862	AGAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAACU	17170
2446	UUCUGCUC U UCCUCUCC	1863	GGAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGAA	17171
2449	UGCUCUUC C UCUCGUG	1864	CACGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCA	17172
2450	GCUCUUC U CUCCGUGA	1865	UCACGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGC	17173
2452	UCUUCUC U CCGUGAAC	1866	GUUCACGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAGA	17174
2454	UUCUCUC C GUGAACGU	1867	ACGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAA	17175
2465	GAACGUGC A CGCUGACA	1868	UGUCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICACGUUC	17176
2469	GUGCACGC U GACACUGG	1869	CCAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGCAC	17177
2473	ACGCGUAC A CUGGGUGU	1870	ACACCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCGU	17178
2475	GCUGACAC U GGGUGUGC	1871	GCACACCC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAGC	17179
2484	GGUGUGGC C AUAGACAU	1872	AUGUCUAU CUGAUGAG	GCCGUUAGGC	CGAA ICACACCC	17180
2485	GGUGUGCC A UAGACAUC	1873	GAUGUCUA CUGAUGAG	GCCGUUAGGC	CGAA IGCACACC	17181
2491	CCAUAGAC A UCAGCCGG	1874	CCGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUGG	17182
2494	UAGACAUC A GCCGGCAA	1875	UUGCCGGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCUA	17183
2497	ACAUCAGC C GGCAAGAG	1876	CUCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUGU	17184
2501	CAGCCGGC A AGAGCUGA	1877	UCAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCGGCUG	17185
2507	GCAAGAGC U GAGAUGUG	1878	CACAUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUGC	17186
2530	GAGUGUUC A UACACAAU	1879	AUUGUGUA CUGAUGAG	GCCGUUAGGC	CGAA IAACACUC	17187
2534	GUUCAUAC A CAAUGAUG	1880	CAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUAUGAAC	17188
2536	UCAUACAC A AUGAUGUG	1881	CACAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGUAUGA	17189
2550	GUGGAGGC U UGGAUGGA	1882	UCCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCCAC	17190
2560	GGAUGGAC C GGUACAAG	1883	CUUGUACC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUC	17191
2566	ACCGGUAC A AGUAUUAU	1884	GUAUAUAC CUGAUGAG	GCCGUUAGGC	CGAA IUACCGGU	17192
2575	AGUAUUAU C UGAAACG	1885	CGUUAUAC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUACU	17193
2576	GUUAUACC C UGAAACGC	1886	GCGUUUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUAAUAC	17194
2577	UAUUAACC U GAAACGCC	1887	GGCGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IGGUAAUA	17195
2585	UGAAACGC C ACAAGGCC	1888	GGCCUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUUCA	17196
2586	GAAACGCC A CAAGCCU	1889	AGGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA ICGGUUUC	17197
2588	AACGCCAC A AGGCCUAG	1890	CUAGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCGUU	17198
2593	CACAAGGC C UAGCCAAG	1891	CUUGGCUA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGUG	17199
2594	ACAAGGCC U AGCCAAGA	1892	UCUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCCUUGU	17200
2598	GGCCUAGC C AAGAUCAU	1893	AUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUAGGCC	17201
2599	GCCUAGCC A AGAUCAU	1894	AAUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCUAAGC	17202
2605	CCAAGAU C UUCAGAAA	1895	UUUCUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGG	17203
2609	GAUCAUUC A GAAAGCUC	1896	GAGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGAUC	17204

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2616	CAGAAAGC U CAUAAGGA	1897	UCCUUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUCUG	17205
2618	GAAAGCUC A UAAGGAAG	1898	CUUCCUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUUUC	17206
2639	GUGCGGUC U ACGAUCAG	1899	CUGAUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCGCAC	17207
2646	CUACGAUC A GUUCCAG	1900	CUGGAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCGUAG	17208
2652	UCAGUUUC C AGACUGGA	1901	UCCAGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACUGA	17209
2653	CAGUUUCC A GACUGGAG	1902	CUCCAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAACUG	17210
2657	UUCAGAC U GGAGCAUC	1903	GAUGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGGAA	17211
2663	ACUGGAGC A UCAAAUGU	1904	ACAUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCAGU	17212
2666	GGAGCAUC A AAUGUGG	1905	CCCACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGCUCC	17213
2679	UGGGAAGC A GUGAAGGA	1906	UCCUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCCA	17214
2693	GGACGAGC U GAACACUC	1907	GAGUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCGUCC	17215
2698	AGCUGAAC A CUCUUUG	1908	CAAAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAGCU	17216
2700	CUGAACAC U CUUUUGAA	1909	UUCAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUCAG	17217
2702	GAACACUC U UUUGAAGG	1910	CCUUCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUUC	17218
2725	GUGUGGAC C UUAGUGUC	1911	GACACUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCACAC	17219
2726	UGUGGACC U UAGUGUCG	1912	CGACACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCACA	17220
2747	UGAGAAAC A GGAGGGAA	1913	UUCCCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCUCA	17221
2761	GAAUGUAC A AGUCAGCA	1914	UGCUGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACAUC	17222
2766	UACAAGUC A GCACCUAA	1915	UUAGGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUGUA	17223
2769	AAGUCAGC A CCUAAACG	1916	CGUUUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGUUUC	17224
2771	GUCAGCAC C UAAACGCC	1917	GGCGUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGAC	17225
2772	UCAGCACC U AAACGCCU	1918	AGGCGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCUGA	17226
2779	CUAAACGC C UCACCGCC	1919	GGCGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUUAG	17227
2780	UAAACGCC U CACCGCCA	1920	UGGCGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCGUUUA	17228
2782	AACGCCUC A CCGCCACC	1921	GGUGGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCGUU	17229
2784	CGCCUCAC C GCCACCAC	1922	GUGGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGGCG	17230
2787	UCACCCGC C ACCACGGA	1923	UCCGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUGAG	17231
2788	UCACCGCC A CCACGGAA	1924	UUCGUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGUGA	17232
2790	ACCGCCAC C ACGGAAAA	1925	UUUUCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCGGU	17233
2791	CCGCCACC A CGGAAAAA	1926	UUUUUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGCGG	17234
2812	AAAUUGGC U GGAAGGCC	1927	GGCCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUUU	17235
2820	UGGAAGGC C UGGGGAAA	1928	UUUCCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUCCA	17236
2821	GGAAGGCC U GGGGAAAG	1929	CUUUCCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUUC	17237
2844	UUUUUUGC A CCAGAACU	1930	AGUUCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUUA	17238
2846	UUUUGCAC C AGAACUCG	1931	CGAGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAAAU	17239
2847	UUUGCACC A GAACUCGC	1932	CGGAGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCAAA	17240
2852	ACCAGAAC U CGCCAACA	1933	UGUUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUGGU	17241
2856	GAACUCGC C AACACAC	1934	GUGUUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUUC	17242
2857	AACUCGCC A ACAACACC	1935	GGUGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGUU	17243
2860	UCGCCAAC A ACACCUU	1936	AAAGGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGCGA	17244
2863	CCAACAAC A CCUUUGUG	1937	CACAAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUUGG	17245
2865	AACAACAC C UUUGUGGU	1938	ACCACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUGUU	17246
2866	ACAACACC U UUGUGGUU	1939	AACCACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUUGU	17247
2882	UGAUGGUC C GGAGACCA	1940	UGGUUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAUCA	17248
2889	CCGAGAC C AAGGAAUG	1941	CAUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCCG	17249
2890	CGGAGACC A AGGAAUGU	1942	ACAUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCUCCG	17250
2900	GGAAUGUC C GACUCAGA	1943	UCUGAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUUC	17251
2904	UGUCCGAC U CAGAAUCG	1944	CGAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGGACA	17252
2906	UCCGACUC A GAAUCGCG	1945	CGCGAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCGGA	17253
2916	AAUCGCGC U UGGAAUAG	1946	CUAUUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAUU	17254
2926	GGAAUAGC U UAGAAGUG	1947	CACUUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAUUC	17255
2954	AUUUGGUC U CACCAGCA	1948	UGCUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAAAU	17256
2956	UUGGUCAC A CCAGCACU	1949	AGUGCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACCAA	17257
2958	GGUCUCAC C AGCACUCG	1950	CGAGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGACC	17258
2959	GUCUCACC A GCACUCGG	1951	CCGAGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGAGC	17259
2962	UCACCAGC A CUCGGAUG	1952	CAUCCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUGA	17260
2964	ACCAGCAC U CGGAUGUU	1953	AACAUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGGU	17261
2974	GGAUGUUC C UGAAGGUC	1954	GACCUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAUC	17262
2975	GAUGUUC U GAAGGUCA	1955	UGACCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACAUC	17263
2983	UGAAGGUC A GAGAGAGC	1956	GCUCUCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUCA	17264
2992	GAGAGAGC A ACACAACU	1957	AGUUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCUC	17265
2995	AGAGCAAC A CAACUGAA	1958	UUCAGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUCU	17266

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2997	AGCAACAC A ACUGAAUG	1959	CAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUCU	17267
3000	AACACAAC U GAAUGUGA	1960	UCACAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGUU	17268
3010	AAUGUGAC U CGAAGAUC	1961	GAUCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCACAUU	17269
3019	CGAAGAUC A UUGGAACG	1962	CGUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUCUUCG	17270
3030	GGAACGGC U GUCAAGAA	1963	UUCUUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUUCC	17271
3034	CGGCUGUC A AGAACAAC	1964	GUUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCCG	17272
3040	UCAAGAAC A ACUUGGCG	1965	CGCCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUGA	17273
3043	AGAACAAC U UGGCGAUC	1966	GAUCGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUCU	17274
3052	UGGCGAUC C ACAGUGAC	1967	GUACACUG CUGAUGAG	GCCGUUAGGC	CGAA IAUCGCCA	17275
3053	GGCGAUCC A CAGUGACC	1968	GGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA IGAUCGCC	17276
3055	CGAUCCAC A GUGACCUG	1969	CAGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUCG	17277
3061	ACAGUGAC C UGUCCUAU	1970	AUAGGACA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGU	17278
3062	CAGUGACC U GUCCUAU	1971	AAUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	17279
3066	GACCUGUC C UAUUGGAU	1972	AUCCAAUA CUGAUGAG	GCCGUUAGGC	CGAA IACAGGUC	17280
3067	ACCUGUCC U AUUGGAU	1973	AAUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA IGACAGGU	17281
3082	UGAAAGC A GGCUCAAU	1974	AUUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAA	17282
3086	AAGCAGGC U CAAUGAU	1975	UAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGCUU	17283
3088	GCAGGCUC A AUGAUACG	1976	CGUAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUGC	17284
3104	UGGAAGC U UGAAAGGG	1977	CCCUUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAC	17285
3114	GAAAGGC A GUUCUGGG	1978	CCCAGAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCUUUC	17286
3119	GGCAGUUC U GGGUGAAG	1979	CUUCACCC CUGAUGAG	GCCGUUAGGC	CGAA IAACUGCC	17287
3130	GUGAAGUC A AAUCAUGU	1980	ACAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IACUUCAC	17288
3135	GUCAAUUC A UGUACGUG	1981	CACGUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUTUUGAC	17289
3146	UACGUGGC C UGAGACGC	1982	GCGUCUCA CUGAUGAG	GCCGUUAGGC	CGAA ICCACGUA	17290
3147	ACGUGGCC U GAGACGCA	1983	UGCGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCCACGU	17291
3155	UGAGACGC A UACCUUGU	1984	ACAAGGUA CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUCA	17292
3159	ACGCAUAC C UUGUGGGG	1985	CCCCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGCGU	17293
3160	CGCAUACC U UGUGGGC	1986	GCCCCACA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCG	17294
3178	AUGGAUUC C UUGAGAGU	1987	ACUCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCCAU	17295
3179	UGGAUUC U UGAGAGUG	1988	CACUCUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCCA	17296
3190	AGAGUGAC U UGAUAUA	1989	UAUAUAUA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUCU	17297
3200	GAUAUAUC C AGUCACAC	1990	GUGUGACU CUGAUGAG	GCCGUUAGGC	CGAA IUAUAUUC	17298
3201	AUAUAUAC A GUCACACU	1991	AGUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUAUAU	17299
3205	UACCAGUC A CACUGGCG	1992	CGCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA IACUGGUA	17300
3207	CCAGUCAC A CUGGCCGG	1993	CCCCGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGACUGG	17301
3209	AGUCACAC U GCGGGGAC	1994	GUCGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGACU	17302
3218	GGCGGGAC C ACGAAGCA	1995	UGCUUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUCCGCC	17303
3219	GCGGGACC A CGAAGCAA	1996	UUGCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCGC	17304
3226	CACGAAGC A AUCACAAU	1997	AUUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUUCGUG	17305
3230	AAGCAAUC A CAAUCGGA	1998	UCCGAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCUU	17306
3232	GCAAUAC A AUCGGAGA	1999	UCUCGGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGC	17307
3242	UCGGAGAC C UGGGUACA	2000	UGUACCCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCGA	17308
3243	CGGAGACC U GGGUACAA	2001	UUGUACCC CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCG	17309
3250	CUGGGUAC A AGACACAA	2002	UUGUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IUACCCAG	17310
3255	UACAAGAC A CAAAACCA	2003	UGGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUGUA	17311
3257	CAAGACAC A AAACCAGG	2004	CCUGUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUUG	17312
3262	CACAAAAC C AGGGCCCA	2005	UGGGCCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUG	17313
3263	ACAAAACC A GGGCCCAU	2006	AUGGGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUGU	17314
3268	ACCAGGGC C CAUGGGAC	2007	GUCCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGGU	17315
3269	CCAGGGCC C AUGGGACG	2008	CGUCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGCCUUGG	17316
3270	CAGGGCCC A UGGGACGA	2009	UCGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGCCUG	17317
3283	ACGAAGGC C GGGUAGAG	2010	CUCUACCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUUCGU	17318
3298	AGAUUGAC U UCGAUUAC	2011	GUAUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCU	17319
3307	UCGAUAC U GCCCAGGA	2012	UCCUGGCC CUGAUGAG	GCCGUUAGGC	CGAA IUAUUGCA	17320
3310	AUUACUGC C CAGGAACU	2013	AGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUAU	17321
3311	UUACUGCC C AGGAACUA	2014	UAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUAA	17322
3312	UACUGCCC A GGAACUAC	2015	GUAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUA	17323
3318	CCAGGAAC U ACGGUCAC	2016	GUGACCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUGG	17324
3325	CUACGGUC A CCCUGAGU	2017	ACUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACCUUAG	17325
3327	ACGGUCAC C CUGAGUGA	2018	UCACUCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACCGU	17326
3328	CGGUCACC C UGAGUGAG	2019	CUCACUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACCG	17327
3329	GGUCACCC U GAGUGAGA	2020	UCUCACUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGACC	17328

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3298	AGAUGAC U UCGAUUAC	2011	GUAAUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCU	17319
3307	UCGAUUC U GCCCAGGA	2012	UCCUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUCGA	17320
3310	AUUACUGC C CAGGAACU	2013	AGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUAAU	17321
3311	UUACUGCC C AGGAACUA	2014	UAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCGAUA	17322
3312	UACUGCCC A GGAACUAC	2015	GUAGUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUA	17323
3318	CCAGGAAC U ACGGUCAC	2016	GUGACCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGG	17324
3325	CUACGGUC A CCCUGAGU	2017	ACUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACCGUAG	17325
3327	ACGGUCAC C CUGAGUGA	2018	UCACUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGACCGU	17326
3328	CGGUCACC C UGAGUGAG	2019	CUACUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACCG	17327
3329	GGUCACCC U GAGUGAGA	2020	UCUCACUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGACC	17328
3340	GUGAGAGC U GCGACAC	2021	GUGUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCAC	17329
3347	CUGCGGAC A CCGUGGAC	2022	GUCCACGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCGACG	17330
3349	GCGGACAC C GUGGACCU	2023	AGGUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCGC	17331
3356	CCUGGAC C UGCCACUC	2024	GAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCACG	17332
3357	CGUGGACC U GCCACUCG	2025	CAGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCACG	17333
3360	GGACCUCC C ACUCGCAC	2026	GUGCGAGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGGUCC	17334
3361	GACCUGCC A CUCGCACC	2027	GGUGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGGUC	17335
3363	CCUGCCAC U CGCACCAC	2028	GUGGUGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGG	17336
3367	CCACUCGC A CCACCACA	2029	UGUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGGG	17337
3369	ACUCGCAC C ACCACAGA	2030	UCUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCGAGU	17338
3370	UCCGCACC A CCACAGAG	2031	CUCUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCGAG	17339
3372	CGCACCAC C ACAGAGAG	2032	CUCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGCG	17340
3373	GCACCACC A CAGAGAGC	2033	GCUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUGC	17341
3375	ACCACCAC A GAGAGCGG	2034	CCGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGGU	17342
3396	UUGAUAA C GAUUGGUG	2035	CACCAAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCAA	17343
3406	AUUGUGUC U GCAGGAGC	2036	GCUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAU	17344
3409	GGUGCUGC A GGAGCUGC	2037	GCAGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCACCC	17345
3415	GCAGGAGC U GCACCUUA	2038	UAAGGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCCG	17346
3418	GGAGCUGC A CCUUAACA	2039	UGGUAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUCC	17347
3420	AGCUGCAC C UAACCACC	2040	GGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGCU	17348
3421	GCUGCACC U UAACCACA	2041	UGGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGC	17349
3425	CACCUUAC C ACCACUGC	2042	GCAGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUAAGGUG	17350
3426	ACCUUACC A CCACUGCG	2043	CGCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUAAGGU	17351
3428	CUUACCAC C ACUGCGCU	2044	AGCGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUAAG	17352
3429	UUACCACC A CUGCGCUA	2045	UAGCGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUA	17353
3431	ACCACCAC U GCGCUACC	2046	GGUAGCGC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGGU	17354
3436	CACUGCGC U ACCAAACU	2047	AGUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA ICGCAGUG	17355
3439	UGCGCUAC C AAACUGAC	2048	GUCAGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUAGCGCA	17356
3440	GCGCUACC A AACUGACA	2049	UGUCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IGUAAGGC	17357
3444	UACCAAAC U GACAGCGG	2050	CCGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGUA	17358
3448	AAACUGAC A GCGGUGU	2051	ACAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGUUU	17359
3454	ACAGCGGC U GUUGUAU	2052	AUACCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGU	17360
3475	UGGAGAUC A GACCACAG	2053	CUGUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUCA	17361
3479	GAUCAGAC C ACAGAGAC	2054	GUCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGAUC	17362
3480	AUCAGACC A CAGAGACA	2055	UGUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCGAU	17363
3482	CAGACCAC A GAGACAUG	2056	CAUGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCUG	17364
3488	ACAGAGAC A UGAUGAAA	2057	UUUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUGU	17365
3501	GAAAAGAC C CUCGUGCA	2058	UGCACGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCUUUUC	17366
3502	AAAAGACC C UCGUGCAG	2059	CUGCACGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUUU	17367
3503	AAAGACCC U CGUGCAGU	2060	ACUGCAGG CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUUU	17368
3509	CCUCGUGC A GUCAAAAG	2061	CUUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACGAGG	17369
3513	GUGCAGUC A CAAGUGAA	2062	UUCACUUG CUGAUGAG	GCCGUUAGGC	CGAA IACUCAC	17370
3515	GCAGUCAC A AGUGAAUG	2063	CAUUCACU CUGAUGAG	GCCGUUAGGC	CGAA IUGACUGC	17371
3525	GUGAAUGC U UAUAAUGC	2064	GCAUUAUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUCAC	17372
3534	UAUAAUGC U GAUAUGAU	2065	AUCAUAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUUAUA	17373
3547	UGAUUGAC C CUUUUCAG	2066	CUGAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCA	17374
3548	GAUUGACC C UUUUCAGU	2067	ACUGAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAUC	17375
3549	AUUGACCC U UUUUCAGU	2068	AACUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGUCAAU	17376
3554	CCUUUUUC A GUUGGGCC	2069	GGCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAAAGGG	17377
3562	AGUUGGGC C UUCUGGUC	2070	GACCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAACU	17378
3563	GUUGGGCC U UCUGGUCG	2071	CGACCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCCAAC	17379

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3566	GGGCCUUC U GGUCGUGU	2072	ACACGACC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGCC	17380
3577	UCGUGUUC U UGGCCACC	2073	GGUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACACGA	17381
3582	UUCUUGGC C ACCCAGGA	2074	UCCUGGGU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAA	17382
3583	UCUUGGCC A CCCAGGAG	2075	CUCUUGGG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAAGA	17383
3585	UUGGCCAC C CAGGAGGU	2076	ACCUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCCAA	17384
3586	UGGCCACC C AGGAGGUC	2077	GACCUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGCCA	17385
3587	GGCCACCC A GGAGGUCC	2078	GGACUCC CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGGCC	17386
3595	AGGAGGUC C UUCGCAAG	2079	CUUGCGAA CUGAUGAG	GCCGUUAGGC	CGAA	IACCUCU	17387
3596	GGAGGUCC U UCGCAAGA	2080	UCUUGCGA CUGAUGAG	GCCGUUAGGC	CGAA	IGACUCC	17388
3601	UCCUUCGC A AGAGGUGG	2081	CCACCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICGAAGGA	17389
3612	AGGUGGAC A GCCAAGAU	2082	AUCUUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUCCACCU	17390
3615	UGGACAGC C AAGAUCAG	2083	CUGAUUU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCCA	17391
3616	GGACAGCC A AGAUCAGC	2084	GCUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGUCC	17392
3622	CCAAGAUC A GCAUGCCA	2085	UGGCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCUUGG	17393
3625	AGAUCAGC A UGCCAGCU	2086	AGCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAUCU	17394
3629	CAGCAUGC C AGCUAUAC	2087	GUUAAGCU CUGAUGAG	GCCGUUAGGC	CGAA	ICAUGCUG	17395
3630	AGCAUGCC A GCUAUACU	2088	AGUAUAGC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUCGU	17396
3633	AUGCCAGC U AUACUGAU	2089	AUCAUAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGCAU	17397
3638	AGCUAUAC U GAUUGCUC	2090	GAGCAAUC CUGAUGAG	GCCGUUAGGC	CGAA	IUAUAGCU	17398
3645	CUGAUUGC U CUGCUAGU	2091	ACUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUCAG	17399
3647	GAUUGCUC U GCUAGUCC	2092	GGACUAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGCAAUC	17400
3650	UGCUCUGC U AGUCCUGG	2093	CCAGGACU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAGCA	17401
3655	UGCUGAUC C UGGUGUUU	2094	AAACACCA CUGAUGAG	GCCGUUAGGC	CGAA	IACUAGCA	17402
3656	GCUAGUCC U GGUGUUUG	2095	CAACACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGACUAGC	17403
3670	UUGGGGCG A UUAUCUAC	2096	GUAAGUAA CUGAUGAG	GCCGUUAGGC	CGAA	ICCCCAA	17404
3675	GGCAUUAU C UACACUGA	2097	UCAGUGUA CUGAUGAG	GCCGUUAGGC	CGAA	IUAAGGCC	17405
3679	UUAUCUAC A CUGAUGUG	2098	CACAUCAG CUGAUGAG	GCCGUUAGGC	CGAA	IUAAGUAA	17406
3681	ACUUAACAC U GAUGUGUU	2099	AACACAUC CUGAUGAG	GCCGUUAGGC	CGAA	IUGUAAGU	17407
3694	UGUUAACGC U AUGUCAUC	2100	GAUGACAU CUGAUGAG	GCCGUUAGGC	CGAA	ICGUAACA	17408
3700	GCUAUGUC A UCUUGGUG	2101	CACCAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IACAUAGC	17409
3703	AUGUCAUC U UGGUGGGG	2102	CCCCACCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGACAU	17410
3714	GUGGGGGC A GCUUUCGC	2103	GCGAAAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCCCAC	17411
3717	GGGGCAGC U UUCGCAGA	2104	UCUGCGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCCCC	17412
3723	GCUUUCGC A GAACUAA	2105	UUAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA	ICGAAAGC	17413
3729	GCAGAAUC U AAUUCGGG	2106	CCCGAAUU CUGAUGAG	GCCGUUAGGC	CGAA	IAUUCUGC	17414
3752	CGUGGUAC A CUUGGCGC	2107	GCGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IUACCACG	17415
3754	UGGUACAC U UGGCGCUC	2108	GAGCGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IUGUACCA	17416
3761	CUUGGCGC U CAUGGCGA	2109	UCGCCAUG CUGAUGAG	GCCGUUAGGC	CGAA	ICGCCAAG	17417
3763	UGGCGCUC A UGGCGACC	2110	GGUCGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGCCA	17418
3771	AUGGCGAC C UUCAAGAU	2111	AUCUUGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCGCCAU	17419
3772	UGGCGACC U UCAAGAU	2112	UAUCUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IGUCGCCA	17420
3775	CGACCUUC A AGAUCAA	2113	UUGUAUCU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGUCC	17421
3782	CAAGAUAU C ACCAGUGU	2114	ACACUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAUCUUG	17422
3785	GAUACAAC C AGUGUUUA	2115	UAAACACU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUAUC	17423
3786	AUACAACC A GUGUUUAU	2116	AUAAACAC CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGUAU	17424
3801	AUGGUGGC A UCGUUUCU	2117	AGAAACGA CUGAUGAG	GCCGUUAGGC	CGAA	ICCACCAU	17425
3809	AUCGUUUC U CAAAGCGA	2118	UCGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAACGAU	17426
3811	CGUUUCUC A AAGCGAGA	2119	UCUCGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAACG	17427
3825	AGAUGGAC C AACCAGGA	2120	UCCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAUUC	17428
3826	GAUGGACC A ACCAGGAG	2121	CUCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUUC	17429
3829	GGACCAAC C AGGAGAAC	2122	GUUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGUCC	17430
3830	GACCAACC A AGAGAACA	2123	UGUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGGUC	17431
3838	AGGAGAAC A UUUUGUUG	2124	CAACAAAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUCCU	17432
3858	UUGGCGGC U GUUUUCUU	2125	AAGAAAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCCAA	17433
3865	CUGUUUUC U UUCAAAUG	2126	CAUUUGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAACAG	17434
3869	UUUCUUUC A AAUGGCUU	2127	AAGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAAA	17435
3876	CAAAUGGC U UAUCACGA	2128	UCGUGAUA CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUUG	17436
3881	GGCUUAUC A CGAUGCCC	2129	GGGCAUCG CUGAUGAG	GCCGUUAGGC	CGAA	IAUAAGCC	17437
3888	CACGAUGC C CGCCAAAU	2130	AUUUGGCG CUGAUGAG	GCCGUUAGGC	CGAA	ICAUCGUG	17438
3889	ACGAUGCC C GCCAAAUU	2131	AAUUUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUCGU	17439
3892	AUGCCGCG C AAAUUCUG	2132	CAGAAUUU CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCAU	17440

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3893	UGCCCCGC A AAUUCUGC	2133	GCAGAAUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGGCA	17441
3899	CCAAAUUC U GCUCUGGG	2134	CCCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUUGG	17442
3902	AAUUCUGC U CUGGGAGA	2135	UCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAAUU	17443
3904	UUCUGCUC U GGGAGAUC	2136	GAUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGCAGAA	17444
3913	GGGAGAUC C CUGAUGUG	2137	CACAUCAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUCUCCC	17445
3914	GGAGAUGC C UGAUGUGU	2138	ACACAUCA CUGAUGAG	GCCGUUAGGC	CGAA	IGAUCUCC	17446
3915	GAGAUGCC U GAUGUGUU	2139	AACACAUC CUGAUGAG	GCCGUUAGGC	CGAA	IGGAUCUC	17447
3930	UUGAAUUC A CUGGCGGU	2140	ACCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUCA	17448
3932	GAAUUCAC U GCGGUAG	2141	CUACCGCC CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAUUC	17449
3942	GCGGUAGC U UGGAUGAU	2142	AUCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGUACCGC	17450
3953	GAUGAUAC U GAGAGCCA	2143	UGGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA	IUAUCAUC	17451
3960	CUGAGAGC C AUAACAUU	2144	AAUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUCAG	17452
3961	UGAGAGCC A UAACAUUC	2145	GAAUGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCUCA	17453
3966	GCCAUAAC A UUCACAAC	2146	GUUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUAUGGC	17454
3970	UAACAUUC A CAACGACA	2147	UGUCGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGUUA	17455
3972	ACAUUCAC A ACGACAUC	2148	GAUGUCGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAUGU	17456
3978	ACAACGAC A UCAAACGU	2149	ACGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUCGUUGU	17457
3981	ACGACAUC A AACGUGGU	2150	ACCACGUU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUCGU	17458
3995	GGUUGUUC C GCUGCUG	2151	CUAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAACAACC	17459
3998	UGUUCGCG U GCUAGCCC	2152	GGGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGAACA	17460
4001	UCCGCGUC U AGCCCGUC	2153	GCAGGGCU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCGGA	17461
4005	CUGCUGAC C CUGCUAAC	2154	GUUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUAGCAG	17462
4006	UGCUAGCC C UGCUAACA	2155	UGUUGACA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUAGCA	17463
4007	GCUAGCCC U GCUAACAC	2156	GUGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCUAGC	17464
4010	AGCCCGUC U AACACCCG	2157	CGGGUGUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGGCU	17465
4014	CUGCUAAC A CCCGGGCU	2158	AGCCCGGG CUGAUGAG	GCCGUUAGGC	CGAA	IUUAGCAG	17466
4016	GCUAACAC C CCGGCUGA	2159	UCAGCCCG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUAGC	17467
4017	CUAACACC C GGGCUGAG	2160	CUCAGCCC CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGUAG	17468
4022	ACCCGGGC U GAGAUGCU	2161	AGCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCGGGU	17469
4030	UGAGAUGC U UGAAUCUG	2162	CAGAUUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICAUCUCA	17470
4037	CUUGAAUC U GGAUGUGU	2163	ACACAUC CUGAUGAG	GCCGUUAGGC	CGAA	IAUUCAG	17471
4048	AUGUGUAC A GGAUACUG	2164	CAGUAUCC CUGAUGAG	GCCGUUAGGC	CGAA	IUACACAU	17472
4055	CAGGAUAC U GCUGUUGA	2165	UCAACAGC CUGAUGAG	GCCGUUAGGC	CGAA	IUAUCCUG	17473
4058	GAUACUGC U GUUGAUGG	2166	CCAUCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUAUC	17474
4078	GAAUAGGC A GCUUGAUC	2167	GAUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICCUAUUC	17475
4081	UAGGCAGC U UGAUCAGG	2168	CCUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCCUA	17476
4087	GCUGAUC A GGGAGAAG	2169	CUUCUCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICAUAGC	17477
4104	AGGAGUGC A GCUGCAA	2170	UUUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICACUCCU	17478
4107	AGUGCAGC U GCAAAAAA	2171	UUUUUUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCACU	17479
4110	GCAGCUGC A AAAAAGAA	2172	UUCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCUGC	17480
4125	AAAGGAGC A AGUCUGCU	2173	AGCAGACU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCUUU	17481
4130	AGCAAGUC U GCUAUGCU	2174	AGCAUAGC CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGCU	17482
4133	AAGUCUGC U AUGCUUGG	2175	CCAAGCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGACUU	17483
4138	UGCUAUGC U UGGCUCUA	2176	UAGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA	ICAUAGCA	17484
4143	UGCUUGGC U CUAGCCUC	2177	GAGGCUAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGCA	17485
4145	CUUGGCUC U AGCCUCA	2178	UUGAGGCU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCAAG	17486
4149	GCUCUAGC C UCAACAGG	2179	CCUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICUAGAGC	17487
4150	CUCUAGCC U CAACAGGA	2180	UCCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCUAGAG	17488
4152	CUAGCCUC A ACAGGACU	2181	AGUCCUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGCUAG	17489
4155	GCCUCAAC A GGACUUUU	2182	AAAAGUCC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAGGC	17490
4160	AACAGGAC U UUCAACC	2183	GGUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUGUU	17491
4165	GACUUUUC A ACCCAUG	2184	CAUGGGGU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAGUC	17492
4168	UUUCAAC C CCAUGAUC	2185	GAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAAAA	17493
4169	UUUCAACC C CAUGAUCC	2186	GGAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGAAA	17494
4170	UUCAACCC C AUGAUCCU	2187	AGGAUCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUGAA	17495
4171	UCAACCCC A UGAUCCUU	2188	AAGGAUCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUGAA	17496
4177	CCAUGAUC C UUGCUGCU	2189	AGCAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAUGG	17497
4178	CAUGAUCC U UGCUGCUG	2190	CAGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA	IGAUCAUG	17498
4182	AUCCUUGC U GCUGGACU	2191	AGUCCAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGGAU	17499
4185	CUUGCUGC U GGACUGAU	2192	AUCAGUCC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAAG	17500
4190	UGCUGGAC U GAUUGCAU	2193	AUGCAAUC CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAGCA	17501

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4266	AUGUUUGC C AUCGUCGG	2207	CCGACGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAAACAU	17515
4267	UGUUUGCC A UCGUCGGA	2208	UCOGACGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAACA	17516
4280	CGGAGGGC U GGCAGAGC	2209	GCUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUCCG	17517
4284	GGGCUUGC A GAGCUUGA	2210	UCAAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGCCC	17518
4289	GGCAGAGC U UGACAUUG	2211	CAAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCC	17519
4294	AGCUUGAC A UUGACUCC	2212	GGAGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGCTU	17520
4300	ACAUUGAC U CCAUGGCC	2213	GGCCAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUGU	17521
4302	AUUGACUC C AUGGCCAU	2214	AUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCAAU	17522
4303	UUGACUCC A UGGCCAUA	2215	AAUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCA	17523
4308	UCCAUGGC C AUUCCAAU	2216	AUUGGAAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUGGA	17524
4309	CCAUGGCC A UUCCAAUG	2217	CAUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUGG	17525
4313	GGCCAUUC C AAUGACUA	2218	UAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGCC	17526
4314	GCCAUUC C AUGACUAU	2219	AUAGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGGC	17527
4320	CCAUGAC U AUCGCGGG	2220	CCCGCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUUGG	17528
4331	CGCGGGC U CAUGUUUG	2221	CAAACAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCGCG	17529
4333	CGGGGCU C A UGUUUGCU	2222	AGCAAACA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCCG	17530
4341	AUGUUUGC U GCUUUCGU	2223	ACGAAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAACAU	17531
4344	UUUGCUG C U UUCGUGAU	2224	AUCACGAA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAA	17532
4356	GUGAUUUC U GGGAAAU C	2225	GAUUUCCC CUGAUGAG	GCCGUUAGGC	CGAA IAAAUCCAC	17533
4365	GGGAAAU C A ACAGAUAU	2226	AUAUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCCC	17534
4368	AAAUCAAC A GAUUGUG	2227	CACAUAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUUU	17535
4396	CGGCGGAC A UUUCUGG	2228	CCAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGCCG	17536
4401	GACAUUUC C UGGGAAAG	2229	CUUCCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGUC	17537
4402	ACAUUUC C U GGGAAAGU	2230	ACUUUCCC CUGAUGAG	GCCGUUAGGC	CGAA IGAAAUUG	17538
4416	AGUGAUG C A GAAAUUAC	2231	GUAAUUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUACU	17539
4425	GAAAUUAC A GGCUCGAG	2232	CUCGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUUUC	17540
4429	UUACAGGC U CGAGCGAA	2233	UUCGCUCG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGUAA	17541
4454	UGUGCGGC U UGAUGAUG	2234	CAUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICCGCACA	17542
4471	AUGGAAAC U UCCAGCUC	2235	GAGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUCCAU	17543
4474	GAAACUUC C AGCUCAUG	2236	CAUGAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUUC	17544
4475	AAACUUUC A GCUCAUGA	2237	UCAUGAGC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUUU	17545
4478	CUUCCAGC U CAUGAAUG	2238	CAUUCAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAAG	17546
4480	UCCAGCUC A UGAAUGAU	2239	AUCAUUA CUGAUGAG	GCCGUUAGGC	CGAA IAGCUGGA	17547
4490	GAAUGAUC C AGGAGCAC	2240	GUGCUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUUC	17548
4491	AAUGAUCC A GGAGCACC	2241	GGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUCAUU	17549
4497	CCAGGAGC A CCUUGGAA	2242	UUCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUGG	17550
4499	AGGAGCAC C UUGGAAGA	2243	UCUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUCCU	17551
4500	GGAGCAC C UUGGAAGAU	2244	AUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCUCC	17552
4517	AUGGAUGC U CAGAAUGG	2245	CCAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCCAU	17553
4519	GAUGGUC C A GAAUGGUC	2246	GACCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUCC	17554
4528	GAAUGGUC U GUCUCGCG	2247	CGCGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IACCAUUC	17555
4532	GGUCUGUC U CGCAUUA	2248	UAAUCGCG CUGAUGAG	GCCGUUAGGC	CGAA IACAGACC	17556
4549	GUGCGUAC A CCCCUGG	2249	CCAGGGGG CUGAUGAG	GCCGUUAGGC	CGAA IUACGCAC	17557
4551	GCGUACAC C CCCUGGGC	2250	GCCCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUACGC	17558
4552	CGUACACC C CCUGGGCA	2251	UGCCCAGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUACG	17559
4553	GUACACCC C CUGGGCAA	2252	UUGCCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUAC	17560
4554	UACACCCC C UGGGCAAU	2253	AUUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUGA	17561
4555	ACACCCCC U GGGCAUUC	2254	GAUUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGGUGU	17562
4560	CCCUGGGC A AUCUUGCC	2255	GGCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGG	17563
4564	GGGCAUUC U UGCCUCA	2256	UGAGGGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCCC	17564
4568	AAUCUUGC C CUCAGUAG	2257	CUACUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGAUU	17565
4569	AUCUUGCC C UCAGUAGU	2258	ACUACUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGAU	17566
4570	UCUUGCCC U CAGUAGUU	2259	AACUACUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAGA	17567
4572	UUGCCUUC A GUAGUUGG	2260	CCAACUAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGGCAA	17568
4593	UGGAUAAC U CUCCAAUA	2261	UAUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCCA	17569
4595	GAUAACUC U CCAAUACA	2262	UGUAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUAUC	17570
4597	UAACUCUC C AAUACACA	2263	UGUGUAUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUA	17571
4598	AACUCUCC A AUACACAA	2264	UUGUGUAU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGUU	17572
4603	UCCAAUAC A CAAAGAGA	2265	UCUCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUAUUGGA	17573
4605	CAUAACAC A AAGAGAGG	2266	CCUCUCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUAUUG	17574
4630	UGUGGAG C CUCCUCA	2267	UGAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCACA	17575
4632	UGGGACAC U CCCUACCC	2268	GGUGAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCCA	17576

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4634	GGACACUC C CUCACCAA	2269	UUGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCC	17577
4635	GACACUCC C UCACCAA	2270	UUUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUC	17578
4636	ACACUCCC U CACCAAAG	2271	CUUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUGU	17579
4638	ACUCCUC A CCAAAGGA	2272	UCCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGGAGU	17580
4640	UCCUCAC C AAAGGAGU	2273	ACUCCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGGA	17581
4641	CCUCACC A AAGGAGUA	2274	UACUCCUU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGGG	17582
4651	AGGAGUAC A AAAAGGGG	2275	CCCUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUACUCCU	17583
4663	AGGGGGAC A CGACCACC	2276	GGUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCCCU	17584
4668	GACACGAC C ACCGGCGU	2277	ACGCCGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGUC	17585
4669	ACACGACC A CCGGCGUC	2278	GACGCCGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCGUGU	17586
4671	ACGACCAC C GCGUCUA	2279	UAGACGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCGU	17587
4678	CCGGCGUC U ACAGGAUC	2280	GAUCCUGU CUGAUGAG	GCCGUUAGGC	CGAA IACGCCGG	17588
4681	GCUCUAC A GGAUCAUG	2281	CAUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUAGACGC	17589
4687	ACAGGAUC A UGACUCGU	2282	ACGAGUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUGU	17590
4692	AUCAUGAC U CGUGGGCU	2283	AGCCCACG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGAU	17591
4700	UGGUGGGC U GCUCGGCA	2284	UGCCGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACGA	17592
4703	UGGGCUGC U CGGCAGUU	2285	AACUGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCCA	17593
4708	UGCUCGGC A GUUAUCA	2286	UUGAUAA CUGAUGAG	GCCGUUAGGC	CGAA ICCGAGCA	17594
4715	CAGUUAUC A AGCAGGAG	2287	CUCUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAAUCG	17595
4719	UAUCAAGC A GGAGCGGG	2288	CCCGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAUA	17596
4750	GUGUUUUC C ACACCCUU	2289	AAGGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAAACAC	17597
4751	UGUUUUCC A CACCCUUU	2290	AAAGGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAAACA	17598
4753	UUUCCAC A CCCUUUGG	2291	CCAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAAA	17599
4755	UCCACAC C CUUUGGCA	2292	UGCCAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGAA	17600
4756	UCCACACC C UUUGGCAU	2293	AUGCCAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGGA	17601
4757	CCACACCC U UUGGCAUA	2294	UAUGCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUGG	17602
4763	CCUUUGGC A UACAACA	2295	UUGUUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICCAAAGG	17603
4767	UGGCAUAC A CAAAAGG	2296	CCUUUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGCCA	17604
4770	CAUACAAC A AAAGGAGC	2297	GCUCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAUG	17605
4779	AAAGGAGC C GCUUGAU	2298	AUCAAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUUU	17606
4782	GGAGCCGC U UUGAUGAG	2299	CUCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICGGCUCC	17607
4801	GAGAGGGC C GCCUGGAC	2300	GUCCAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUC	17608
4804	AGGGCCGC C UGGACCCA	2301	UGGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICGGCCCU	17609
4805	GGGCCGCC C UGGACCAU	2302	AUGGGUCC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCCCC	17610
4810	GCCUGGAC C CAUACUGG	2303	CCAGUAUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAGGC	17611
4811	CCUGGACC C AUACUGGG	2304	CCCAGUAU CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAGG	17612
4812	CUGGACCC A UACUGGGG	2305	CCCAGUA CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCAG	17613
4816	ACCAUAC U GGGGCAU	2306	ACUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUAUGGGU	17614
4822	ACUGGGGC A GUGUCAAG	2307	CUUGACAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGU	17615
4828	GCAGUGUC A AGGAGGAU	2308	AUCCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IACACUGC	17616
4841	GGAUCGAC U UUGUACG	2309	CGUAACAA CUGAUGAG	GCCGUUAGGC	CGAA IUCGAUCC	17617
4856	CGGAGGAC C CUGGAAAU	2310	AUUUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCG	17618
4857	GGAGGACC C UGGAAAUU	2311	AAUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUCC	17619
4858	GAGGACCC U GGAAAUUG	2312	CAAUUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCUC	17620
4868	GAAAUUGC A GCACAAGU	2313	ACUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUCU	17621
4871	AUUGCAGC A CAAGUGGA	2314	UCCACUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAAU	17622
4873	UGCAGCAC A AGUGGAAC	2315	GUUCCACU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGCA	17623
4886	GAACGGGC A GGAUGAGG	2316	CCUCAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCCGUUC	17624
4898	UGAGGUGC A GAUGAUUG	2317	CAAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICACCUCA	17625
4916	GGUGGAAC C UGGCAAGA	2318	UCUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCACC	17626
4917	GUGGAACC U GGCAAGAA	2319	UUCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCACC	17627
4921	AACCUUGC A AGAACGUU	2320	AACGUUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGUU	17628
4939	AGAACGUC C AGACGAA	2321	UUUCGUCU CUGAUGAG	GCCGUUAGGC	CGAA IACGUUCU	17629
4940	GAACGUCC A GACGAAAC	2322	GUUUCGUC CUGAUGAG	GCCGUUAGGC	CGAA IGACGUUC	17630
4949	GACGAAAC C AGGGGUGU	2323	ACACCCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUCGUC	17631
4950	ACGAAACC A GGGUGUU	2324	AACACCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCUGU	17632
4960	GGGUGUUC A AAACACCU	2325	AGGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAAACCCC	17633
4965	UUCAAAAC A CCUGAAGG	2326	CCUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGAA	17634
4967	CAAAACAC C UGAAGGAG	2327	CUCCUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUUG	17635
4968	AAAACACC U GAAGGAGA	2328	UCUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUUU	17636
4986	AUCGGGGC C GUGACUUU	2329	AAAGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCGAU	17637
4992	GCCGUGAC U UUGGACUU	2330	AAGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCACGGC	17638

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4999	CUUUGGAC U UCCCCACU	2331	AGUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAAG	17639
5002	UGGACUUC C CCACUGGA	2332	UCCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGUCCA	17640
5003	GGACUUC C CACUGGAA	2333	UUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUCC	17641
5004	GACUUC C ACUGGAAC	2334	GUUCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUC	17642
5005	ACUUC C CUGGAACA	2335	UGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAGU	17643
5007	UUC C GGAACAUC	2336	GAUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGGAA	17644
5013	ACUGGAAC A UCAGGCUC	2337	GAGCCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGU	17645
5016	GGAACAUC A GGCUCACC	2338	GGUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUUUC	17646
5020	CAUCAGGC U CACCAUA	2339	UAUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAUG	17647
5022	UCAGGCUC A CCAUAGU	2340	ACUAUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUGA	17648
5024	AGGCUCAC C AAUAGUGG	2341	CCACUAU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCCU	17649
5025	GGCUCACC A AUAGUGGA	2342	UCCACUAU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGCC	17650
5035	UAGUGGAC A AAAACGGU	2343	ACCGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCACUA	17651
5057	GAUUGGC U UUAUGGCA	2344	UGCCAUAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAUC	17652
5065	UUUAUGGC A AUGGAGUC	2345	GACUCCAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAAA	17653
5074	AUGGAGUC A UAAUGCCC	2346	GGGCAUUA CUGAUGAG	GCCGUUAGGC	CGAA IACUCCAU	17654
5081	CAUAUUGC C CAACGGCU	2347	AGCCGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAUUAUG	17655
5082	AUAUUGCC C AACGGCUC	2348	GAGCCGUU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUUAU	17656
5083	UAAUGCCC A ACGGCUCA	2349	UGAGCCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUUA	17657
5089	CCAAACGGC U CAUACAUA	2350	UAUGUAUG CUGAUGAG	GCCGUUAGGC	CGAA IACGUUGG	17658
5091	AACGGCUC A UACAUAAG	2351	CUUAUGUA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGUU	17659
5095	GCUCAUAC A UAAGCGCG	2352	CGCGCUUA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGAGC	17660
5111	GAUAGUGC A GGUUGAAA	2353	UUUCACCC CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUC	17661
5132	GGAUGAGC C AAUCCAG	2354	CUGGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUCC	17662
5133	GAUGAGCC A AUCCAGC	2355	GCUGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAUC	17663
5137	AGCCAAUC C CAGCCGGA	2356	UCCGGCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCU	17664
5138	GCCAAUCC C AGCCGGAU	2357	AUCCGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGGC	17665
5139	CCAAUCCC A GCCGGAU	2358	AAUCCGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGAUUGG	17666
5142	AUCCAGC C GGAUUCGA	2359	UCGAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGAU	17667
5153	AUUCGAAC C UGAGAUGC	2360	GCAUCUA CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAAU	17668
5154	UUCGAACC U GAGAUGC	2361	AGCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCGAA	17669
5162	UGAGAUUC U GAGGAAAA	2362	UUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUA	17670
5174	GAAAAAAC A GAUCACUG	2363	CAGUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUC	17671
5179	AACAGAU CUGUACUG	2364	CAGUACAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUU	17672
5181	CAGAU C U GUACUGGA	2365	UCCAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCUG	17673
5186	CACUGUAC U GGAUCUCC	2366	GGAGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUACAGUG	17674
5192	ACUGGAUC U CCAUCCCG	2367	CGGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAGU	17675
5194	UGGAUCUC C AUCCGGC	2368	GCCGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCCA	17676
5195	GGAUCUC A UCCCGCG	2369	CGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUCC	17677
5198	UCUCCAU C CGGCGCCG	2370	CGGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAGA	17678
5199	CUCCAUCC C GGCGCCG	2371	CGGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAG	17679
5205	CCCGCGC C GGUAAAC	2372	GUUUUACC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCGGG	17680
5214	GGUAAAC A AGGAGGAU	2373	AUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUACC	17681
5225	GAGGAUC U GCCACAGA	2374	UCUGGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCCUC	17682
5228	GAUUCUG C ACAGAUCA	2375	UGAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAUC	17683
5229	AUUCUGCC A CAGAUCAU	2376	AUGAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAAU	17684
5231	UCUGCCAC A GAUCAUA	2377	UGAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGA	17685
5236	CACAGAU C UCAAAGAG	2378	CUCUUUA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUG	17686
5239	AGAUAUC A AAGAGGCC	2379	GGCCUUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUAUCU	17687
5247	AAAGAGGC C AUAAACAG	2380	CUGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUCU	17688
5248	AAGAGGCC A UAAACAGA	2381	UCUGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUCU	17689
5254	CAUAAAC A GAAGACUG	2382	CAGUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGG	17690
5261	CAGAGAC U GAGAACAG	2383	CUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCUG	17691
5268	CUGAGAAC A GCCUGCU	2384	AGCACGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCAG	17692
5271	AGAACAG C GUGCUAGC	2385	GUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCU	17693
5276	AGCCGUG U AGCACCA	2386	UUGGUCU CUGAUGAG	GCCGUUAGGC	CGAA ICACGGCU	17694
5280	GUGCUAGC A CCAACCAG	2387	CUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAC	17695
5282	GUAGCAC C AACAGGG	2388	CCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUAGC	17696
5283	CUAGACC A ACCAGGGU	2389	ACCCGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUAG	17697
5286	GCACCAAC C AGGUGUGU	2390	ACAACCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGC	17698
5287	CACCAACC A GGGUUGUG	2391	CACAACC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUG	17699
5298	GUUGGGC U GCUGAGAU	2392	AUCUCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAC	17700

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5231	UCUGCCAC A GAUCAUCA	2377	UGAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGA	17685
5236	CACAGAUC A UCAAAGAG	2378	CUCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCUGUG	17686
5239	AGAUCAUC A AAGAGGCC	2379	GGCCUCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUGAUCU	17687
5247	AAAGAGGC C AUAACAG	2380	CUGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUUU	17688
5248	AAGAGGCC A UAAACAGA	2381	UCUGUUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUCUU	17689
5254	CCAUAAC A GAAGACUG	2382	CAGUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUAGG	17690
5261	CAGAAGAC U GAGAACAG	2383	CUGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCUG	17691
5268	CUGAGAAC A GCCGUGCU	2384	AGCACGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCAG	17692
5271	AGAACAGC C GUGCUAGC	2385	GCUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUCU	17693
5276	AGCCGUGC U AGCACCAA	2386	IUGGUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICACGGCU	17694
5280	GUGCUAGC A CCAACCAG	2387	CUGGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAC	17695
5282	GCUAGCAC C AACCAGGG	2388	CCCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUAGC	17696
5283	CUAGCACC A ACCAGGGU	2389	ACCCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUAG	17697
5286	GCACCAAC C AGGGUUGU	2390	ACAACCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGC	17698
5287	CACCAACC A GGGUUGUG	2391	CACAACCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUG	17699
5298	GUUGUGGC U GCUGAGAU	2392	AUCUCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAC	17700
5301	GUGGCUGC U GAGAUGGC	2393	GCCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCAC	17701
5310	GAGAUGGC U GAAGCACU	2394	AGUGCUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCUC	17702
5316	GCUGAAGC A CUGAGAGG	2395	CCUCUCAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAGC	17703
5318	UGAAGCAC U GAGAGGAC	2396	GUCCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGCUUCA	17704
5327	GAGAGGAC U GCCCAUCC	2397	GGAUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCUC	17705
5330	AGGACUGC C CAUCCGGU	2398	ACCGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCCU	17706
5331	GGACUGCC C AUCCGGUA	2399	UACCGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUCC	17707
5332	GACUGCCC A UCCGGUAC	2400	GUACCGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUC	17708
5335	UGCCCAUC C GGUACCA	2401	CUGGUACC CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGCA	17709
5341	UCCGGUAC C AGACAUC	2402	GGAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA IUACCGGA	17710
5342	CCGGUACC A GACAUC	2403	CGGAUGUC CUGAUGAG	GCCGUUAGGC	CGAA IGUACCGG	17711
5346	UACCAGAC A UCCGCAGU	2404	ACUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGUA	17712
5349	CAGACAUC C GCAGUGCC	2405	GGCACUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCUG	17713
5352	ACAUCCGC A GUGCCAG	2406	CUGGGCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGAUGU	17714
5357	CGCAGUGC C CAGAGAAC	2407	GUUCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICACUGCG	17715
5358	GCAGUGCC C AGAGAACA	2408	UGUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCACUGC	17716
5359	CAGUGCCC A GAGAACA	2409	AUGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCUCUG	17717
5366	CAGAGAAC A UAAUGGAA	2410	UUCCAUUA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCUG	17718
5392	UGAUGUC A UGUGUCAU	2411	AUGACACA CUGAUGAG	GCCGUUAGGC	CGAA IACAUCAA	17719
5399	CAUGUGUC A UGCUACCC	2412	GGGUAGCA CUGAUGAG	GCCGUUAGGC	CGAA IACACAUG	17720
5403	UGUCAUGC U ACCUCAC	2413	GUGAGGGU CUGAUGAG	GCCGUUAGGC	CGAA IACAGACA	17721
5406	CAUGCUAC C CUCACCCA	2414	UGGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUAGCAUG	17722
5407	AUGCUACC C UCACCCAC	2415	GUGGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUAGCAU	17723
5408	UGCUACCC U CACCCACA	2416	UGUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUAGCA	17724
5410	CUACCCUC A CCCACAGG	2417	CCUGUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUAG	17725
5412	ACCCUCAC C CACAGGCU	2418	AGCCUGUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGGU	17726
5413	CCUCACC C ACAGGUG	2419	CAGCCUGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGGG	17727
5414	CCUACCC C CAGGUGA	2420	UCAGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAGG	17728
5416	UCACCCAC A GGCUGAUG	2421	CAUACGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGA	17729
5420	CCACAGGC U GAUGUCUC	2422	GAGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGUGG	17730
5427	CUGAUGUC U CCUCACAG	2423	CUGUGAGG CUGAUGAG	GCCGUUAGGC	CGAA IACAUCAG	17731
5429	GAUGUCUC C UCACAGGG	2424	CCCUGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGACAUC	17732
5430	AUGUCUCC U CACAGGGU	2425	ACCCUGUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGACAU	17733
5432	GUCUCCUC A CAGGGUGC	2426	GCACCCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAC	17734
5434	CUCCUCAC A GGGUGCCG	2427	CGGCACCC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGAG	17735
5441	CAGGGUGC C GAACUACA	2428	UGUAGUUC CUGAUGAG	GCCGUUAGGC	CGAA ICACCCUG	17736
5446	UGCCGAAC U ACAACCG	2429	CAGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGCGCA	17737
5449	CGAACUAC A ACCUGUUC	2430	GAACAGGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUCG	17738
5452	ACUACAAC C UGUUCGUG	2431	CACGAACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAGU	17739
5453	CUACAACC U GUUCGUGA	2432	UCACGAAC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGUAG	17740
5472	GAUGAGGC U CAUUCAC	2433	GUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAUC	17741
5474	UGAGGCUC A UUCACCG	2434	CGUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUCA	17742
5479	CUCAUUC A CCGACCCA	2435	UGGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGAG	17743
5481	CAUUCAC C GACCCAGC	2436	GCUGGGUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUUG	17744
5485	UCACCGAC C CAGCUAGC	2437	GCUAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCGGUGA	17745

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5486	CACCGACC C AGCUAGCA	2438	UGCUAGCU CUGAUGAG	GCCGUUAGGC CGAA IGUCGGUG	17746
5487	ACCGACCC A GCUAGCAU	2439	AUGCUAGC CUGAUGAG	GCCGUUAGGC CGAA IGGUCGGU	17747
5490	GACCCAGC U AGCAUUGC	2440	GCAAUGCU CUGAUGAG	GCCGUUAGGC CGAA ICUGGGUC	17748
5494	CAGCUAGC A UUGCAGCA	2441	UGCUGCAA CUGAUGAG	GCCGUUAGGC CGAA ICUAGCUG	17749
5499	AGCAUUGC A GCAAGAGG	2442	CCUCUUGC CUGAUGAG	GCCGUUAGGC CGAA ICAAUGCU	17750
5502	AUUGCAGC A AGAGGUUA	2443	UAACCUCU CUGAUGAG	GCCGUUAGGC CGAA ICUGCAAU	17751
5512	GAGGUUAC A UUUCCACA	2444	UGUGGAAA CUGAUGAG	GCCGUUAGGC CGAA IUAACCUC	17752
5517	UACAUUUC C ACAAAGGU	2445	ACCUUUGU CUGAUGAG	GCCGUUAGGC CGAA IAAAUUGA	17753
5518	ACAUUUCC A CAAAGGUC	2446	GACCUUUG CUGAUGAG	GCCGUUAGGC CGAA IGAAAUUGU	17754
5520	AUUUCCAC A AAGGUCGA	2447	UGCACCTU CUGAUGAG	GCCGUUAGGC CGAA IUGGAAAU	17755
5531	GGUCGAGC U AGGGGAGG	2448	CCUCCCCU CUGAUGAG	GCCGUUAGGC CGAA ICUCGACC	17756
5547	GCGGCGGC A AUAUUAU	2449	AUGAAUAU CUGAUGAG	GCCGUUAGGC CGAA ICCGCCGC	17757
5554	CAUAUUC A UGACAGCC	2450	GGCUGUCA CUGAUGAG	GCCGUUAGGC CGAA IAAUAUUG	17758
5559	UCAUGAC A GCCACCCC	2451	GGGUGGGC CUGAUGAG	GCCGUUAGGC CGAA IUCAUGAA	17759
5562	AUGACAGC C ACCCCACC	2452	GGUGGGGU CUGAUGAG	GCCGUUAGGC CGAA ICUGUCAU	17760
5563	UGACAGCC A CCCACCA	2453	UGGUGGGG CUGAUGAG	GCCGUUAGGC CGAA IGCUGUCA	17761
5565	ACAGCCAC C CCACCAGG	2454	CCUGUGGG CUGAUGAG	GCCGUUAGGC CGAA IUGGCUGU	17762
5566	CAGCCACC C CACCAGGC	2455	GCCUGUGG CUGAUGAG	GCCGUUAGGC CGAA IUGGCUG	17763
5567	AGCCACCC C ACCAGGCA	2456	UGCCUGGU CUGAUGAG	GCCGUUAGGC CGAA IGGUGGCU	17764
5568	GCCACCCC A CCAGGCAC	2457	GUGCCUGG CUGAUGAG	GCCGUUAGGC CGAA IGGUGGCU	17765
5570	CACCCAC C AGGCACUU	2458	AAGUGCCU CUGAUGAG	GCCGUUAGGC CGAA IUGGGGUG	17766
5571	ACCCACC A GGCACUUC	2459	GAAGUGCC CUGAUGAG	GCCGUUAGGC CGAA IUGGGGUG	17767
5575	CACCAGGC A CUUCAGAU	2460	AUCUGAAG CUGAUGAG	GCCGUUAGGC CGAA ICCUGGUG	17768
5577	CCAGGCAC U UCAGAUCC	2461	GAUCUGA CUGAUGAG	GCCGUUAGGC CGAA IUGCCUGG	17769
5580	GGCACUUC A GAUCCAUI	2462	AAUGGAUC CUGAUGAG	GCCGUUAGGC CGAA IAAGUGCC	17770
5585	UUCAGAU C AUUCCAG	2463	UCUGGAAU CUGAUGAG	GCCGUUAGGC CGAA IAUCUGAA	17771
5586	UCAGAUCC A UUCCAGA	2464	UCUGGGAA CUGAUGAG	GCCGUUAGGC CGAA IGAUCUGA	17772
5590	AUCCAUI C CAGAGUCC	2465	GGACUCUG CUGAUGAG	GCCGUUAGGC CGAA IAAUGGAU	17773
5591	UCCAUI C AGAGUCCA	2466	UGGACUCU CUGAUGAG	GCCGUUAGGC CGAA IGAAUGGA	17774
5592	CCAUUCCC A GAGUCCA	2467	UUGGACUC CUGAUGAG	GCCGUUAGGC CGAA IGGAUUGG	17775
5598	CCAGAGUC C AAUCCACC	2468	GGUGAAU CUGAUGAG	GCCGUUAGGC CGAA IACUCUGG	17776
5599	CAGAGUCC A AUUCACCA	2469	UGGUGAAU CUGAUGAG	GCCGUUAGGC CGAA IGACUCUG	17777
5604	UCCAAUUC A CCAAUUC	2470	GAAAUUGG CUGAUGAG	GCCGUUAGGC CGAA IAAUUGGA	17778
5606	CAAUUCAC C AAUUCGC	2471	CGGAAAU CUGAUGAG	GCCGUUAGGC CGAA IUGAAUUG	17779
5607	AAUUCACC A AUUCCGA	2472	UCGGAAU CUGAUGAG	GCCGUUAGGC CGAA IGUGAAU	17780
5613	CCAAUUC C GACUACA	2473	UGUAAGUC CUGAUGAG	GCCGUUAGGC CGAA IAAUUGG	17781
5617	UUUCCGAC U UACAGACU	2474	AGUCUGUA CUGAUGAG	GCCGUUAGGC CGAA IUCGAAA	17782
5621	CGACUAC A GACUGAGA	2475	UCUCAGUC CUGAUGAG	GCCGUUAGGC CGAA IUAAGUCG	17783
5625	UUACAGAC U GAGAUCCC	2476	GGGAUCUC CUGAUGAG	GCCGUUAGGC CGAA IUCUGUAA	17784
5632	CUGAGAU C CGGAUCGA	2477	UCGAUCCG CUGAUGAG	GCCGUUAGGC CGAA IAUCUCAG	17785
5633	UGAGAUCC C GGAUCGAG	2478	CUCGAUCC CUGAUGAG	GCCGUUAGGC CGAA IGAUCUCA	17786
5643	GAUCGAGC U UGGAACUC	2479	GAGUCCA CUGAUGAG	GCCGUUAGGC CGAA ICUCGAUC	17787
5650	CUUGGAAC U CUGGAUAC	2480	GUAUCCAG CUGAUGAG	GCCGUUAGGC CGAA IUUCCAAG	17788
5652	UGGAACUC U GGAUACGA	2481	UCGUUACC CUGAUGAG	GCCGUUAGGC CGAA IAGUCCA	17789
5668	AAUGGAUC A CAGAAUAC	2482	GUUUCUG CUGAUGAG	GCCGUUAGGC CGAA IAUCCAUI	17790
5670	UGGAUCAC A GAAUACAC	2483	GUGUAUUC CUGAUGAG	GCCGUUAGGC CGAA IUGAUCCA	17791
5677	CAGAAUAC A CCGGAAG	2484	CUUCCCGG CUGAUGAG	GCCGUUAGGC CGAA IUAUUCUG	17792
5679	GAAUACAC C GGAAGAC	2485	GUCUCCC CUGAUGAG	GCCGUUAGGC CGAA IUGUAUUC	17793
5702	GUUGUGC C UAGUGUCA	2486	UGACACUA CUGAUGAG	GCCGUUAGGC CGAA ICACAAAC	17794
5703	UUUGUGCC U AGUGUCAA	2487	UUGACACU CUGAUGAG	GCCGUUAGGC CGAA IGCACAAA	17795
5710	CUAGUGUC A AGAUGGGG	2488	CCCCAUUC CUGAUGAG	GCCGUUAGGC CGAA IACACUAG	17796
5730	GAGAUUGC C CUUUGCCU	2489	AGGCAAG CUGAUGAG	GCCGUUAGGC CGAA ICAAUCUC	17797
5731	AGAUUGCC C UUUGCCUA	2490	UAGGCAAA CUGAUGAG	GCCGUUAGGC CGAA IAGCAUCU	17798
5732	GAUUGCCC U UUGCCUAC	2491	GUAGGCAA CUGAUGAG	GCCGUUAGGC CGAA IGGCAAUC	17799
5737	CCCUUUGC C UACAACGU	2492	ACGUUGUA CUGAUGAG	GCCGUUAGGC CGAA ICAAAGGG	17800
5738	CCUUGGCC U ACAACGUG	2493	CACGUUGU CUGAUGAG	GCCGUUAGGC CGAA IGCAAAGG	17801
5741	UUGCCUAC A ACGUGCUG	2494	CAGCACGU CUGAUGAG	GCCGUUAGGC CGAA IUAGGCAA	17802
5748	CAACGUGC U GGAAGAA	2495	UUCUUUCC CUGAUGAG	GCCGUUAGGC CGAA ICACGUUG	17803
5764	AAGUAGUC C AAUUGAAC	2496	GUUCAAU CUGAUGAG	GCCGUUAGGC CGAA IACUACUU	17804
5765	AGUAGUCC A AUUGAACA	2497	UGUCAAU CUGAUGAG	GCCGUUAGGC CGAA IGACUACU	17805
5773	AAUUGAAC A GAAAGUCG	2498	CGACUUUC CUGAUGAG	GCCGUUAGGC CGAA IUUCAAUU	17806

5797	CGGAGUAC	C	CAAAUGU	2499	ACAUUUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUACUCCG	17807
5798	GGAGUACC	C	AAAUGUA	2500	UACAUUUU	CUGAUGAG	GCCGUUAGGC	CGAA	IGUACUCC	17808
5799	GAGUACCC	A	AAAUGUA	2501	UUACAUUU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUACUC	17809
5824	AUUGGGAC	U	UGUUUAUC	2502	GAUAACAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCCAAU	17810
5833	UGUUUAUC	A	CAACAGAC	2503	GUCUGUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IAUAACAA	17811
5835	GUUAUCAC	A	ACAGACAU	2504	AUGUCUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUAA	17812
5838	AUCACAAC	A	GACAUUUC	2505	GAUAUGUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGAU	17813
5842	CAACAGAC	A	UAUCUGAA	2506	UUCAGAUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUGUUG	17814
5847	GACAUUUC	U	GAAUUGGG	2507	CCCAUUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IAUAUGUC	17815
5859	AUGGGGGC	U	AACUUCAA	2508	UUGAAGUU	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCCAU	17816
5863	GGGCUAAC	U	UCAAGGCG	2509	CGCCUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUAGCCC	17817
5866	CUAACUUC	A	AGGCGAGC	2510	GCUCGCCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUUG	17818
5875	AGGCGAGC	A	GGGUGAUU	2511	AAUCACCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCGCCU	17819
5887	UGAUUGAC	A	GCCGGAAG	2512	CUUCCGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUCA	17820
5890	UGACAGC	C	GGAAGAGU	2513	ACUCUUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCA	17821
5906	UGUGAAAC	C	AACCAUCA	2514	UGAUGGUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUUUCACA	17822
5907	GUGAAACC	A	ACCAUCAU	2515	AUGAUGGU	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUUCAC	17823
5910	AAACCAAC	C	AUCAUAAC	2516	GUUAUGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGUUU	17824
5911	AAACCAAC	A	UCAUAACA	2517	UGUUAUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGUUU	17825
5914	CAACCAUC	A	UAACAGAA	2518	UUCUGUUA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGUUG	17826
5919	AUCAUAAC	A	GAAGGAGA	2519	UCUCCUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGAUU	17827
5941	GAGUGAUC	C	UGGAGAGAA	2520	UUCUCCCA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUCACUC	17828
5942	AGUGAUCC	U	GGGAGAAC	2521	GUUCUCCC	CUGAUGAG	GCCGUUAGGC	CGAA	IGAUCACU	17829
5951	GGGAGAAC	C	AUCUGCAG	2522	CUGCAGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUCCC	17830
5952	GGAGAACC	A	UCUGCAGU	2523	ACUGCAGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCUCC	17831
5955	GAACCAUC	U	GCAGUGAC	2524	GUCACUGC	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGUUC	17832
5958	CAUCUGC	A	GUGACAGC	2525	GCUGUCAC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAUUG	17833
5964	GCAGUGAC	A	GCAGCUAG	2526	CUAGCUGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCUGC	17834
5967	GUGACAGC	A	GCUAGUGC	2527	GCACUAGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCAC	17835
5970	ACAGCAGC	U	AGUGCCGC	2528	GCGGCACU	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCUGU	17836
5976	GCUAGUGC	C	GCCAGAG	2529	CUCUGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICACUAGC	17837
5979	AGUGCCGC	C	CAGAGACG	2530	CGUCUCUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCACU	17838
5980	GUGCCGCC	C	AGAGACGU	2531	ACGUCUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGCAC	17839
5981	UGCCGCCC	A	GAGACGUG	2532	CACGUCUC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGGCA	17840
6008	UAGAAUUC	C	GUCGCAAG	2533	CUUGCGAC	CUGAUGAG	GCCGUUAGGC	CGAA	IAUUUCUA	17841
6014	UCCGUCGC	A	AGUUGGUG	2534	CACCAACU	CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCGGA	17842
6031	AUGAGUAC	U	GUUAUGGG	2535	CCCAUAAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUACUCAU	17843
6044	UGGGGGGC	A	CACGAAUG	2536	CAUUCGUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCCCCA	17844
6046	GGGGGCAC	A	CGAAUGAA	2537	UUCAUUCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCCCC	17845
6061	AAGACGAC	U	CGAACUUC	2538	GAAGUUCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCGUCUU	17846
6067	ACUCGAAC	U	UCGCCCAU	2539	AUGGGCGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGAGU	17847
6072	AAUUCGCG	C	CAUUGGAC	2540	GUCCAAUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGAAGUU	17848
6073	ACUUCGCC	C	AUUGGACU	2541	AGUCCAAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGAAGU	17849
6074	CUUCGCCC	A	UUGGACUG	2542	CAGUCCAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGAAG	17850
6081	CAUUGGAC	U	GAGGCACG	2543	CGUGCCUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAAUG	17851
6087	ACUGAGGC	A	CGAAUCAU	2544	AUGAUUCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCUCAUG	17852
6094	CACGAUUC	A	UGCUGGAC	2545	GUCCAGCA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUUCGUG	17853
6098	AAUCAUGC	U	GGACAACA	2546	UGUUGUCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAUGAUU	17854
6103	UGCUGGAC	A	ACAUCAAC	2547	GUUGAUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAGCA	17855
6106	UGGACAAC	A	UCAACAUG	2548	CAUGUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUCCA	17856
6109	ACAACAUC	A	ACAUGCCA	2549	UGGCAUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUUGU	17857
6112	ACAUCAAC	A	UGCCAAAC	2550	GUUUGGCA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAUGU	17858
6116	CAACAUGC	C	AAACGGAC	2551	GUUCCGUU	CUGAUGAG	GCCGUUAGGC	CGAA	ICAUGUUG	17859
6117	AAACUGCC	A	AAACGGACU	2552	AGUCCGUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUCAGUUG	17860
6125	AAACGGAC	U	GAUCGCUC	2553	GAGCGAUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCGUUU	17861
6132	CUGAUCGC	U	CAAUUCUA	2554	UAGAAUUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGAUCAG	17862
6134	GAUCGCUC	A	AUUCUACC	2555	GGUAGAAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGAUC	17863
6139	CUCAAUUC	U	ACCAACCA	2556	UGGUUGGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUGAG	17864
6142	AAUUCUAC	C	AACAGAG	2557	CUCUGGUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUAGAAUU	17865
6143	AUUCUACC	A	ACCAGAGC	2558	GCUCUGGU	CUGAUGAG	GCCGUUAGGC	CGAA	IGUAGAAU	17866
6146	CUACCAAC	C	AGAGCGUG	2559	CACGCUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGUAG	17867

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6147	UACCAACC A GAGCGUGA	2560	UCACGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGUA	17868
6168	GUUAUAC C AUGGAUGG	2561	CCAUCCAU CUGAUGAG	GCCGUUAGGC	CGAA IUUAUAC	17869
6169	UAUAUACC A UGGAUGGG	2562	CCCAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUUA	17870
6184	GGGAUAC C GGCUCAGA	2563	UCUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCCC	17871
6188	AUACCGGC U CAGAGGAG	2564	CUCCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGGUAU	17872
6190	ACCGGCUC A GAGGAGAA	2565	UUCUCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGGU	17873
6211	GAAAAAC U UUCUGGAA	2566	UUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUC	17874
6215	AAACUUUC U GGAACUGU	2567	ACAGUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUUU	17875
6221	UCUGGAAC U GUUGAGGA	2568	UCCUCAAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAGA	17876
6231	UUGAGGAC U GCAGAUUC	2569	AGAUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCA	17877
6234	AGGACUGC A GAUCUGCC	2570	GGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCCU	17878
6239	UGCAGAU C GCCAGUUU	2571	AAACUGGC CUGAUGAG	GCCGUUAGGC	CGAA IACUGCA	17879
6242	AGAUCUGC C AGUUUGGC	2572	GCCAAACU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAUUC	17880
6243	GAUCUGCC A GUUUGGCU	2573	AGCCAAAC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAU	17881
6251	AGUUUGGC U GGCUAACA	2574	UGUAAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAACU	17882
6255	UGGCUGGC U UACAAGGU	2575	ACCUUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICCAGCCA	17883
6259	UGGCUUAC A AGGUUGCA	2576	UGCAACCU CUGAUGAG	GCCGUUAGGC	CGAA IUAAGCCA	17884
6267	AAGGUUGC A GCGGCGUG	2577	CCAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICAACCUU	17885
6273	GCAGCGGC U GGAGUGUC	2578	GACACUCC CUGAUGAG	GCCGUUAGGC	CGAA ICCGCGUC	17886
6282	GGAGUGC A UACCAGA	2579	UCGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IACACUCC	17887
6286	UGCAUAC C ACAGCCGG	2580	CCGUGCGU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGACA	17888
6287	GUCAUACC A CGACCGGA	2581	UCCGUGCG CUGAUGAG	GCCGUUAGGC	CGAA IUAUGAC	17889
6292	ACCACGAC C GGAGGUGG	2582	CCACUCC CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGGU	17890
6304	GGUGGUGC U UUGAUGGU	2583	ACCAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICACCACC	17891
6314	UGAUGGUC C UAGGACAA	2584	UUGUCCUA CUGAUGAG	GCCGUUAGGC	CGAA IACCAUCA	17892
6315	GAUGGUCC U AGGACAAA	2585	UUUGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGACCAUC	17893
6321	CCUAGGAC A AACACAAU	2586	AUUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUAGG	17894
6325	GGACAAAC A CAAUUUA	2587	UAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUCC	17895
6327	ACAAACAC A AUUUUAGA	2588	UCUAAAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUGU	17896
6340	UAGAAGAC A ACAACGAA	2589	UUCUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCUA	17897
6343	AAGACAAC A ACGAAGUG	2590	CACUUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCUU	17898
6358	UGGAAGUC A UCACGAAG	2591	CUUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACUCCA	17899
6361	AAGUCAUC A CGAAGCUU	2592	AAGCUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUGACUU	17900
6368	CACGAAGC U UGGUGAAA	2593	UUUCACCA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCGUG	17901
6386	GAAGAUUC U GAGGCCGC	2594	GCGGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCUUC	17902
6392	UCUGAGGC C GCGCUGGA	2595	UCCAGCGC CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAGA	17903
6397	GGCCGCGC U GGAUUGAC	2596	GUCAAUCC CUGAUGAG	GCCGUUAGGC	CGAA ICGCGGCC	17904
6408	AUUGACGC C AGGUGUA	2597	UACACCCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCAU	17905
6409	UUGACGCC A GGGUGUAC	2598	GUACACCC CUGAUGAG	GCCGUUAGGC	CGAA ICGUCAU	17906
6418	GGGUGUAC U CGGAUCAC	2599	GUGAUCCG CUGAUGAG	GCCGUUAGGC	CGAA IUACACCC	17907
6425	CUCCGAUC A CCAGGCAC	2600	GUGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCGAG	17908
6427	CGGAUCAC C AGGCACUA	2601	UAGUGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCG	17909
6428	GGAUACCC A GGCACUAA	2602	UUAGUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGAUCC	17910
6432	CACCAGGC A CUAAAGGC	2603	GCCUUUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGUG	17911
6434	CCAGGCAC U AAAGGCGU	2604	ACGCCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCCUGG	17912
6445	AGGCGUUC A AGGACUUC	2605	GAAGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAACGCCU	17913
6451	UCAAGGAC U UCGCCUCG	2606	CGAGGCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUGA	17914
6456	GACUUCGC C UCGGAAA	2607	UUUCCCGA CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGUC	17915
6457	ACUUCGCC U CGGAAAA	2608	UUUCCCG CUGAUGAG	GCCGUUAGGC	CGAA ICGAAGU	17916
6471	AAACGUUC U CAGAUAGG	2609	CCUAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAACGUUU	17917
6473	ACGUUCUC A GAUAGGGC	2610	GCCCUAUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAACGU	17918
6482	GAUAGGCG U CAUUGAGG	2611	CCUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCUAUC	17919
6484	UAGGGCUC A UUGAGGUU	2612	AACCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCUA	17920
6494	UAGGUUUC U GGGAAAGA	2613	UCUUUCCC CUGAUGAG	GCCGUUAGGC	CGAA IAACCUCA	17921
6506	AAAGAUGC C UGAGCACU	2614	AGUGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUUU	17922
6507	AAGAUGCC U GAGCACUU	2615	AAGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCUU	17923
6512	GCCUGAGC A CUUCAUGG	2616	CCAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGGC	17924
6514	CUGAGCAC U UCAUGGGG	2617	CCCCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUCAG	17925
6517	AGCACUUC A UGGGAAG	2618	CUUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAAGUGCU	17926
6528	GGGAAGAC A UGGGAAGC	2619	GCUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCC	17927
6537	UGGAAGC A CUUGACAC	2620	GUGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCA	17928

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6539	GGAAGCAC U UGACACCA	2621	UGGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCUUCC	17929
6544	CACUUGAC A CCAUGUAC	2622	GUACAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGUG	17930
6546	CUUGACAC C AUGUACGU	2623	ACGUACA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAAG	17931
6547	UUGACACC A UGUACGU	2624	AACGUACA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCA	17932
6561	GUUGUGGC C ACUGCAGA	2625	UCUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA ICCACAA	17933
6562	UUGUGGCC A CUGCAGAG	2626	CUCUGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCCACAA	17934
6564	GUGGCCAC U GCAGAGAA	2627	UUCUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCCAC	17935
6567	GCCACUGC A GAGAAAGG	2628	CCUUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGGC	17936
6585	GGAAGAGC U CACAGAAU	2629	AUUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCC	17937
6587	AAGAGCUC A CAGAAUGG	2630	CCAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCU	17938
6589	GAGCUCAC A GAAUGGCC	2631	GGCCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCUC	17939
6597	AGAAUGGC C CUGGAGGA	2632	UCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUCU	17940
6598	GAAUGGCC C UGGAGGAA	2633	UUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUUC	17941
6599	AAUGGCC U GGAGGAAC	2634	GUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCAUU	17942
6608	GGAGGAAC U GCCAGAUG	2635	CAUCUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUCC	17943
6611	GGAACUGC C AGAUGCUC	2636	GAGCAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCC	17944
6612	GAACUGCC A GAUGCUCU	2637	AGAGCAUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUUC	17945
6618	CCAGAUGC U CUUCAGAC	2638	GUCUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUGG	17946
6620	AGAUGCUC U UCAGACAA	2639	UUGUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUCU	17947
6623	UGCUCUUC A GACAAUUG	2640	CAAUUGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGCA	17948
6627	CUUCAGAC A AUUGCCU	2641	AAGGCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGAAG	17949
6633	ACAAUUGC C UGAUUGC	2642	GCAAUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUUGU	17950
6634	CAAUUGCC U UGAUUGCC	2643	GGCAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUUG	17951
6642	UUGAUUGC C UUAUUGAG	2644	CUCAAUAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCA	17952
6643	UGAUUGCC U UAUUGAGU	2645	ACUCAUA CUGAUGAG	GCCGUUAGGC	CGAA IGCAUCA	17953
6660	GUGAUGAC C AUGGGAGU	2646	ACUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCAC	17954
6661	UGAUGACC A UGGAGUA	2647	UACUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUCA	17955
6673	GAGUAUUC U UCCUCCUC	2648	GAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAAUACUC	17956
6676	UAUUCUUC C UCCUCAUG	2649	CAUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAAUA	17957
6677	AUUCUUC C CUUCAUGC	2650	GCAUGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAAU	17958
6679	UCUCCUC C UCAUGCAG	2651	CUGCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAGA	17959
6680	CUUCCUC C CAUGCAGC	2652	GCUGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAAG	17960
6682	UCCUCCUC A UGCAGCGG	2653	CCGUGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGGA	17961
6686	CCUCAUG C CGGAAGG	2654	CCUCCGC CUGAUGAG	GCCGUUAGGC	CGAA IACUAGG	17962
6697	GGAAGGGC A UUGGAAAG	2655	CUUCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUC	17963
6723	GGAGGCGC U GUCUUGG	2656	CCCAGAC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCUCC	17964
6727	GCGCUGUC U UGGGAGUC	2657	GACUCCA CUGAUGAG	GCCGUUAGGC	CGAA IACAGCGC	17965
6741	GUCGCGAC C UUUUCUG	2658	CAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGAC	17966
6742	UCGCGACC U UUUUCUGU	2659	ACAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGCGA	17967
6748	CCUUUUC U GUUGGAUG	2660	CAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAGG	17968
6759	UGGAUGGC U GAAGUUC	2661	GGAACUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCCA	17969
6767	UGAAGUUC C AGGAACGA	2662	UCGUUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUA	17970
6768	GAAGUUC A GGAACGAA	2663	UUCGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACUUC	17971
6783	AAGAUCGC C GGAAGUU	2664	AACAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCU	17972
6794	AAUGUUGC U GCUCUCC	2665	GGGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAACAU	17973
6797	GUUGCUGC U CUCCUUC	2666	GAAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAAC	17974
6799	UGCUGCUC U CCUUCUC	2667	GAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGCA	17975
6801	CUGCUCUC C CUUCUCU	2668	AAGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCAG	17976
6802	UGCUCUCC C UUCUCUUG	2669	CAAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGCA	17977
6803	GCUCUCC C UCUCUUGA	2670	UCAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGC	17978
6806	CUCCUUC U CUUGAUGA	2671	UCAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGAG	17979
6808	CCUUCUC U UGAUGAU	2672	AAUCAUA CUGAUGAG	GCCGUUAGGC	CGAA ICAAGGG	17980
6821	GAUUGUGC U AAUUCUG	2673	CAGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICACAAUC	17981
6827	GUAAUUC C UGAGCCAG	2674	CUGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGC	17982
6828	CUAAUUC U GAGCCAGA	2675	UCUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUUG	17983
6833	UCCUGAGC C AGAGAAGC	2676	GCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGGA	17984
6834	CCUGAGCC A GAGAAGCA	2677	UGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAGG	17985
6842	AGAGAAGC A ACGUUCGC	2678	GCGAACGU CUGAUGAG	GCCGUUAGGC	CGAA ICUUCUCU	17986
6851	ACGUUCGC A GACAGACA	2679	UGUCUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGAACGU	17987
6855	UCGCAGAC A GACAACCA	2680	UGGUUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCGA	17988
6859	AGACAGAC A ACGAGCUA	2681	UAGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUCU	17989

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6862	CAGACAAC C AGCUAGCC	2682	GGCUAGCTU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCUG	17990
6863	AGACAACC A GCUAGCCG	2683	CGGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCU	17991
6866	CAACCAGC U AGCCGUGU	2684	ACACGGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUUG	17992
6870	CAGCUAGC C GUGUCCU	2685	AGGAACAC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCUG	17993
6877	CCGUGUUC C UGAUUGU	2686	ACAAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IAACACGG	17994
6878	CGUGUUC U GAUUGUG	2687	CACAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACACG	17995
6889	UUUGUGC A UGACCCU	2688	AAGGGUCA CUGAUGAG	GCCGUUAGGC	CGAA IACACAAA	17996
6894	GUCAUGAC C CUUGUGAG	2689	CUCACAAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUAGC	17997
6895	UCAUGACC C UUUGUGAGC	2690	GCUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUGA	17998
6896	CAUGACCC U UGUGAGCG	2691	CGCUCACA CUGAUGAG	GCCGUUAGGC	CGAA IGGUCAUG	17999
6906	GUGAGCGC A GUGGCAGC	2692	GCUGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGCUCAC	18000
6912	GCAGUGGC A GCCAACGA	2693	UCGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACUGC	18001
6915	GUGGCAGC C AACGAGAU	2694	AUCUCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAC	18002
6916	UGGCAGCC A ACGAGAUG	2695	CAUCUCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGCCA	18003
6932	GGGUUGGC U AGAUAGA	2696	UCUUAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAACCC	18004
6942	GAUAAGAC C AAGAGUGA	2697	UCACUCU CUGAUGAG	GCCGUUAGGC	CGAA IUCUUAUC	18005
6943	AUAAGACC A AGAGUGAC	2698	GUCACUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUAU	18006
6952	AGAGUGAC A UAAGCAGU	2699	ACUGCUUA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUCU	18007
6958	ACAUAAAGC A GUUUGUUU	2700	AAACAAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUAUGU	18008
6971	GUUUGGGC A AAGAAUUG	2701	CAAUUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAAC	18009
6985	UUGAGGUC A AGGAGAAU	2702	AUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IACCUCAA	18010
6997	AGAAUUCU A GCAUGGGA	2703	UCCCAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUCU	18011
7000	AUUCAGC A UGGGAGAG	2704	CUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAAAU	18012
7013	AGAGUUUC U UUUGGACU	2705	AGUCCAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAACUCU	18013
7021	UUUUGGAC U UGAGGCCG	2706	CGGCCUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCAAAA	18014
7028	CUUGAGGC C GGCAACAG	2707	CUGUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAAG	18015
7032	AGGCCGGC A ACAGCCUG	2708	CAGGCUGU CUGAUGAG	GCCGUUAGGC	CGAA ICCGGCCU	18016
7035	CCGGCAAC A GCCUGGUC	2709	GACCAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGCCGG	18017
7038	GCAACAGC C UGGUCACU	2710	AGUGACCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGC	18018
7039	CAACAGCC U GGUCACUG	2711	CAGUGACC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUG	18019
7044	GCCUGGUC A CUGUACGC	2712	GCGUACAG CUGAUGAG	GCCGUUAGGC	CGAA IACCAGGC	18020
7046	CUGGUCAC U GUACGCUG	2713	CAGCGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUGACCAG	18021
7053	CUGUACGC U GUGACAAC	2714	GUUGUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICGUACAG	18022
7059	GCUGUGAC A ACAGCGGU	2715	ACCGCGU CUGAUGAG	GCCGUUAGGC	CGAA IUCACAGC	18023
7062	GUGACAAC A GCGGUCCU	2716	AGGACCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAC	18024
7069	CAGCGGUC C UCACUCCA	2717	UGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACCUCUG	18025
7070	AGCGGUCC U CACUCCAC	2718	GUGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IGACCGCU	18026
7072	CGGUCCUC A CUCCACUG	2719	CAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGACCG	18027
7074	GUCCUCAC U CCACUGCU	2720	AGCAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGAC	18028
7076	CCUCACUC C ACUGCUAA	2721	UUAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAGG	18029
7077	CUACAUCC A CUGCUAAA	2722	UUUAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGAG	18030
7079	CACUCCAC U GCUAAAGC	2723	GCUUUAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGUG	18031
7082	UCCACUGC U AAAGCAUU	2724	AAUGCUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGGA	18032
7088	GCUAAAGC A UUUGAUCA	2725	UGAUCAAA CUGAUGAG	GCCGUUAGGC	CGAA IUCUUAGC	18033
7096	AUUUGAUC A CGUCAGAU	2726	AUCUGACG CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAU	18034
7101	AUCACGUC A GAUUAU	2727	AUGUAAUC CUGAUGAG	GCCGUUAGGC	CGAA IACGUGAU	18035
7108	CAGAUUAC A UCAACACC	2728	GGUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUAAUCUG	18036
7111	AUUACAUC A ACACCUCA	2729	UGAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUAAU	18037
7114	ACAUAAC A CCUCAUUG	2730	CAAUGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGU	18038
7116	AUCAACAC C UCAUUGAC	2731	GUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGAU	18039
7117	UCAAACCC U CAUUGACC	2732	GGUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUGA	18040
7119	AACACCUC A UUGACCUC	2733	GAGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUU	18041
7125	UCAUUGAC C UCAAUAAA	2734	UUUAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUGA	18042
7126	CAUUGACC U CAAUAAAC	2735	GUUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUUG	18043
7128	UUGACCUC A AUAAACGU	2736	ACGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAA	18044
7139	AAACGUUC A GGCAAGUG	2737	CACUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IAACGUUU	18045
7143	GUUCAGGC A AGUGCACU	2738	AGUGCACU CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAAC	18046
7149	GCAAGUGC A CUUUCAC	2739	GUGAAUAG CUGAUGAG	GCCGUUAGGC	CGAA ICACUUGC	18047
7151	AAGUGCAC U AUUCACAC	2740	GUGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGCACUU	18048
7156	CACUAUUC A CACUCGCG	2741	CGCGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGUG	18049
7158	CUAUUCAC A CUCGCGCG	2742	CGCGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUAG	18050

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7160	AUUCACAC U CGCGCGAG	2743	CUCGCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGAAU	18051
7171	CGCGAGGC U UCCCCUUC	2744	GAAGGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCGCG	18052
7174	GAGGCUUC C CCUUCGUC	2745	GACGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCCUC	18053
7175	AGGCUUCC C CUUCGUCG	2746	CGACGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGCCU	18054
7176	GGCUUCCC C UUCGUCGA	2747	UCGACGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGGCC	18055
7177	GUUCCCC U UCGUCGAU	2748	AUCGACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGAAGC	18056
7200	GUGUCGGC U CUCCUGCU	2749	AGCAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGACAC	18057
7202	GUCGGCUC U CCUGCUAG	2750	CUAGCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCGAC	18058
7204	CGGCUCUC C UGCUAGCA	2751	UGCUAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGCCG	18059
7205	GGCUCUCC U GCUAGCAG	2752	CUGCUAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGCC	18060
7208	UCUCCUGC U AGCAGCCG	2753	CGGCUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGGAGA	18061
7212	CUGCUAGC A GCCGAUG	2754	CAUCCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGCAG	18062
7215	CUAGCAGC C GGAUGCUG	2755	CAGCAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCUAG	18063
7222	CCGGAUGC U GGGGACAA	2756	UUGUCCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCCGG	18064
7229	CUGGGGAC A AGUCACCC	2757	GGGUGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCCCAG	18065
7234	GACAAGUC A CCCUACCC	2758	GGUGAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUGUC	18066
7236	CAAGUCAC C CUCACCGU	2759	ACGGUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACUUG	18067
7237	AAGUCACC C UCACCGUU	2760	AACGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACUUU	18068
7238	AGUCACCC U CACCGUUA	2761	UAACGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGACU	18069
7240	UCACCCUC A CCGUACG	2762	CGUAACGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGUGA	18070
7242	ACCUCAC C GUUACGGU	2763	ACCGUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGGGU	18071
7254	ACGGUAAC A GCGCAAC	2764	GUUGCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUACCGU	18072
7260	ACAGCGGC A ACACUCCU	2765	AGGAGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGCUGU	18073
7263	GCGGCAAC A CUCCUUUU	2766	AAAAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCCCG	18074
7265	GGCAACAC U CCUUUUUU	2767	AAAAAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUGCC	18075
7267	CAACACUC C UUUUUUGC	2768	GCAGAAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUGUG	18076
7268	AACACUCC U UUUUUGCC	2769	GGCAAAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUUU	18077
7276	UUUUUUGC C ACUAUGCC	2770	GGCAUAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAAAA	18078
7277	UUUUUGCC A CUAUGCCU	2771	AGGCAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAAAA	18079
7279	UUUGCCAC U AUGCCUAC	2772	GUAGGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCAAA	18080
7284	CACUAUGC C UACAUGGU	2773	ACCAUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUAGUG	18081
7285	ACUAUGCC U ACAUGGUU	2774	AACCAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAUAGU	18082
7288	AUGCCUAC A UGGUUGCC	2775	GGGAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGGCAU	18083
7295	AUGGUUC C CGGUUGGC	2776	GCCAACCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCAUG	18084
7296	AUGGUUCC C GGUUGGCA	2777	UGCCAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACCAU	18085
7304	CGGUUGGC A AGCUGAGG	2778	CCUCAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAACCG	18086
7308	UGGCAAGC U GAGGCAAU	2779	AUUGCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGCCA	18087
7314	GCUGAGGC A AUGGCUC	2780	GAGCGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUCAGC	18088
7321	CAAUGCGC U CAGCCCAG	2781	CUGGGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCAUUG	18089
7323	AUGCGCUC A GCCAGCG	2782	CGCUGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCGCAU	18090
7326	CGCUCAGC C CAGCGGCG	2783	CGCCGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAGCG	18091
7327	GCUCAGCC C AGCGGCGG	2784	CCGCCGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCTUGAGC	18092
7328	GCAGGCC C AGCGCGGA	2785	UCCGCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUGAG	18093
7338	CGGCGGAC A GCGGCGG	2786	CCGGCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCGCCG	18094
7344	ACAGCGGC C GGAAUCAU	2787	AUGAUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGCUGU	18095
7351	CCGGAUUC A UGAAGAAC	2788	GUUCUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCCGG	18096
7362	AAGAACGC U GUAGUGGA	2789	UCCACUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUUCUU	18097
7375	UGGAUGGC A UCGUGGCC	2790	GGCCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUCCA	18098
7383	AUCGUGGC C ACGGACGU	2791	ACGUCCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACGAU	18099
7384	UCGUGGCC A CGGACGUC	2792	GACGUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCACGA	18100
7393	CGGACGUC C CAGAAUUA	2793	UAAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUCCG	18101
7394	GGACGUCC C AGAAUUAG	2794	CUAAUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACGUCC	18102
7395	GACGUCCC A GAAUAGA	2795	UCUAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACGUC	18103
7408	UAGAGCGC A CCACACCC	2796	GGGUGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCUCUA	18104
7410	GAGCGCAC C ACACCAU	2797	AUGGGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCGCUC	18105
7411	AGCGCACC A CACCAUC	2798	GAUGGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCGCU	18106
7413	CGCACCAC A CCAUCAU	2799	AUGAUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUGCG	18107
7415	CACCACAC C CAU AUGC	2800	GCAUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGGUG	18108
7416	ACCACACC C AUCAUGCA	2801	UGCAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUGGU	18109
7417	CCACACCC A UCAUGCAG	2802	CUGCAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGUGG	18110
7420	CACCAUCC A UGCAGAAG	2803	CUUCUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGGUG	18111

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7424	CAUCAUGC A GAAGAAAG	2804	CUUUCUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGAUG	18112
7439	AGUUGGAC A GAUCAUGC	2805	GCAUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUCCAACU	18113
7444	GACAGAUC A UGCUGAUC	2806	GAUCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGUC	18114
7448	GAUCAUGC U GAUCUUGG	2807	CCAGAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGAUC	18115
7453	UGCUGAUC U UGGUGUCU	2808	AGACACCA CUGAUGAG	GCCGUUAGGC	CGAA IAUACAGCA	18116
7461	UUGGUGUC U CUAGCUGC	2809	GCAGCUAG CUGAUGAG	GCCGUUAGGC	CGAA IACACCAA	18117
7463	GGUGUCUC U AGCUGCAG	2810	CUGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAGACACC	18118
7467	UCUCUAGC U GCAGUAGU	2811	ACUACUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUAGAGA	18119
7470	CUAGCUGC A GUAGUAGU	2812	ACUACUAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUAG	18120
7483	UAGUGAAC C CGUCUGUG	2813	CACAGACG CUGAUGAG	GCCGUUAGGC	CGAA IUUCACUA	18121
7484	AGUGAAC C GUCUGUGA	2814	UCACAGAC CUGAUGAG	GCCGUUAGGC	CGAA IGUUCACU	18122
7488	AACCCGUC U GUGAAGAC	2815	GUCUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACGGGUU	18123
7497	GUGAAGAC A GUACGAGA	2816	UCUCGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCAC	18124
7509	CGAGAAGC C GGAUUUU	2817	AAAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCUCG	18125
7522	UUUUGAUC A CGGCCGCA	2818	UGCGGCCG CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAAA	18126
7527	AUCACGGC C GCAGCGGU	2819	ACCGCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAU	18127
7530	ACGGCCGC A GCGGUGAC	2820	GUCACCGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCCGU	18128
7541	GGUGACGC U UUGGGAGA	2821	UCUCCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICGUACCC	18129
7557	AAUGGAGC A AGCUCUGU	2822	ACAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAUI	18130
7561	GAGCAAGC U CUGUUUGG	2823	CCAAACG CUGAUGAG	GCCGUUAGGC	CGAA ICUUGCUC	18131
7563	GCAAGCUC U GUUUGGAA	2824	IUCCAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUUGC	18132
7575	UGGAACGC A ACAACUGC	2825	GCAGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCCA	18133
7578	AACGCAAC A ACUGCCAU	2826	AUGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGCGUU	18134
7581	GCAACAAC U GCCAUCGG	2827	CCGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGUUGC	18135
7584	ACAACUGC C AUCGGACU	2828	AGUCCGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGU	18136
7585	CAACUGCC A UCGGACUC	2829	GAGUCCGA CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUUG	18137
7592	CAUCGGAC U CUGCCACA	2830	UGUGGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCGAUG	18138
7594	UCGGACUC U GCCACAUC	2831	GAUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCGA	18139
7597	GACUCUGC C ACAUCAUG	2832	CAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGUC	18140
7598	ACUCUGCC A CAUCAUGC	2833	GCAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAGU	18141
7600	UCUGCCAC A UCAUGCGU	2834	ACGCAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGCAGA	18142
7603	GCCACAUC A UGCGUGGG	2835	CCCACGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGC	18143
7623	UGGUUGUC A UGUCUAUC	2836	GAUAGACA CUGAUGAG	GCCGUUAGGC	CGAA IACAACCA	18144
7628	GUCAUGUC U AUCCAUA	2837	IUAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACAUGAC	18145
7632	UGUCUAUC C AUAACAUG	2838	CAUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGACA	18146
7633	GUCUAUCC A UAACAUGG	2839	CCAUGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGAC	18147
7638	UCCAUAAC A UGGACACU	2840	AGUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGA	18148
7644	ACAUGGAC A CUCAUAAA	2841	IUAUAGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAUGU	18149
7646	AUGGACAC U CAUAAAGA	2842	UCUUUAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCA	18150
7648	GGACACUC A UAAAGAAC	2843	GUUCUUA CUGAUGAG	GCCGUUAGGC	CGAA IAGUCCU	18151
7657	UAAAGAAC A UGGAAAA	2844	IUUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUUA	18152
7667	GGAAAAAC C AGGACUAA	2845	IUAUUGCU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUCC	18153
7668	GAAAAACC A GGACUAAA	2846	IUAUAGUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUC	18154
7673	ACCAGGAC U AAAAAGAG	2847	IUCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUGGU	18155
7689	GGUGGGGC A AAAGGACG	2848	CGUCCUUU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCACC	18156
7699	AAGGACGC A CCUUGGGA	2849	IUCCAAAG CUGAUGAG	GCCGUUAGGC	CGAA ICGUCCU	18157
7701	GGACGCAC C UUGGGAGA	2850	IUCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUGCGUCC	18158
7702	GACGCACC U UGGGAGAG	2851	IUCUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCGUC	18159
7727	AGAAAGAC U CAACCAGA	2852	IUCUGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUU	18160
7729	AAAGACUC A ACCAGAUG	2853	CAUCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCUU	18161
7732	GACUCAAC C AGAUGACA	2854	UGUCAUCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGUC	18162
7733	ACUCAACC A GAUGACAA	2855	IUGUCAUC CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAGU	18163
7740	CAGAUGAC A AAAGAAGA	2856	IUCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCUG	18164
7753	AAGAGUUC A CUAGGUAC	2857	IUAUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUCUU	18165
7755	GAGUUCAC U AGGUACCG	2858	CGUACCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAACUC	18166
7762	IUAAGGUAC C GCAAAGAG	2859	IUCUUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUAUAG	18167
7765	GGUACCGC A AAGAGGCC	2860	GGCCUUU CUGAUGAG	GCCGUUAGGC	CGAA ICGGUACC	18168
7773	AAAGAGGC C AUCAUCGA	2861	IUCGAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUU	18169
7774	AAGAGGCC A UCAUCGAA	2862	IUCGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUUU	18170
7777	AGGCCAUC A UCGAAGUC	2863	IACUUCGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCU	18171
7792	UCGAUCGC U CAGCGGCA	2864	IUGCCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCGA	18172

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7794	GAUCGCUC A GCGGCAAA	2865	UUUGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCGAUC	18173
7800	UCAGCGGC A AAACACGC	2866	GCGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICCGCUGA	18174
7805	GGCAAAAC A CGCCAGGA	2867	UCCUGCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGCC	18175
7809	AAACACGC C AGGAAAGA	2868	UCUUUCCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUU	18176
7810	AACACGCC A GGAAAGAA	2869	UUCUUUCC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUU	18177
7822	AAGAAGGC A AUGUCACU	2870	AGUGACAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUCUU	18178
7828	GCAUUGUC A CUGGAGGG	2871	CCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA IACAUUGC	18179
7830	AAUGUCAC U GGAGGGCA	2872	UGCCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IUGACAUU	18180
7838	UGGAGGGC A UCCAGUCU	2873	AGACUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCCA	18181
7841	AGGGCAUC C AGUCUCUA	2874	UAGAGACU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCCCU	18182
7842	GGGCAUCC A GUCUCUAG	2875	CUAGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCCC	18183
7846	AUCCAGUC U CUAGGGGC	2876	GCCCUUAG CUGAUGAG	GCCGUUAGGC	CGAA IACUGGAU	18184
7848	CCAGUCUC U AGGGGCAC	2877	GUGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IAGACUGG	18185
7855	CUAGGGGC A CAGCAAAA	2878	UUUUGCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUAG	18186
7857	AGGGGCAC A GCAAAACU	2879	AGUUUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCCCU	18187
7860	GGCACAGC A AAACUGAG	2880	CUCAGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGCC	18188
7865	AGCAAAAC U GAGAUGGC	2881	GCCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGCU	18189
7874	GAGAUGGC U GGUCGAAC	2882	GUUCGACC CUGAUGAG	GCCGUUAGGC	CGAA ICAUCUC	18190
7892	GAGGUUUC U CGAACCGG	2883	CCGGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAAACCUC	18191
7898	UCUCGAAC C GGUCGGAA	2884	UUCCGACC CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAGA	18192
7918	UGAUUGAC C UUGGAUGU	2885	ACAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUCA	18193
7919	GAUUGACC U UGGAUGUG	2886	CACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUUC	18194
7948	GGUGUUAC U AUUUGGCA	2887	UGCCAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUAACACC	18195
7956	UAUAUGGC A ACCCAAAA	2888	UUUUGGGU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUAU	18196
7959	AUGGCAAC C CAAAAAAG	2889	CUUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGCCAU	18197
7960	UGGCAACC C AAAAAAGA	2890	UUUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGCCA	18198
7961	GGCAACCC A AAAAAGAG	2891	UCUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGCC	18199
7972	AAAGAGUC C AAGAAGUC	2892	GACUUCUU CUGAUGAG	GCCGUUAGGC	CGAA IACUCUUU	18200
7973	AAGAGUCC A AGAAGUCA	2893	UGACUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGACUCUU	18201
7981	AAGAAGUC A GAGGUUAC	2894	GUACCCUC CUGAUGAG	GCCGUUAGGC	CGAA IACUUCUU	18202
7990	GAGGGUAC A CAAAGGGC	2895	GCCCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUACCCUC	18203
7992	GGGUACAC A AAGGGCGG	2896	CCGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUACCC	18204
8003	GGGCGGUC C CGGACAUG	2897	CAUGUCCG CUGAUGAG	GCCGUUAGGC	CGAA IACCGCCC	18205
8004	GGCGGUCC C GGACAUGA	2898	UCAUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGACCGCC	18206
8009	UCCCGGAC A UGAAGAGC	2899	GCUCUUUA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGGGA	18207
8018	UGAAGAGC C CCAACUAG	2900	CUAGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUA	18208
8019	GAAGAGCC C CAACUAGU	2901	ACUAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUUC	18209
8020	AAGAGCCC C AACUAGUG	2902	CACUAGUU CUGAUGAG	GCCGUUAGGC	CGAA IGGCUCUU	18210
8021	AGAGCCCC A ACUAGUGC	2903	GCACUAGU CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUCU	18211
8024	GCCCCAAC U AGUGCAAA	2904	UUUGCACU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGGGC	18212
8030	ACUAGUGC A AAGUUUUG	2905	CAUAACUU CUGAUGAG	GCCGUUAGGC	CGAA ICACUAGU	18213
8047	GAUGGAAC A UUGUCACC	2906	GGUGACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAUC	18214
8053	ACAUUGUC A CCAUGAAG	2907	CUUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACAAUGU	18215
8055	AUUGUCAC C AUGAAGAG	2908	CUCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA IUGACAAU	18216
8056	UUGUCACC A UGAAGAGU	2909	ACUCUUCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGACAA	18217
8080	AUGUGUUC U ACAGACCU	2910	AGGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAACACAU	18218
8083	UGUUCUAC A GACUUCU	2911	AGAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA IUAGAACA	18219
8087	CUACAGAC C UUCUGAGU	2912	ACUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUAG	18220
8088	UACAGACC U UCUGAGUG	2913	CACUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGUA	18221
8091	AGACCUUC U GAGUGUUG	2914	CAACACUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUCU	18222
8104	GUUGUGAC A CCCUCCUU	2915	AAGGAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUCACAAC	18223
8106	UGUGACAC C CUCCUUUG	2916	CAAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCACA	18224
8107	GUGACACC C UCCUUUGU	2917	ACAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCAC	18225
8108	UGACACCC U CCUUUGUG	2918	CACAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUCA	18226
8110	ACACCCUC C UUUGUGAC	2919	GUCACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGGUGU	18227
8111	CACCCUCC U UUGUGACA	2920	UGUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGGGUG	18228
8119	UUUGUGAC A UCGAGAG	2921	CUCUCCGA CUGAUGAG	GCCGUUAGGC	CGAA IUCACAAA	18229
8130	GGAGAGUC C UCGUCAAG	2922	CUUGACGA CUGAUGAG	GCCGUUAGGC	CGAA IACUCUCC	18230
8131	GAGAGUCC U CGUCAAGU	2923	ACUUGACG CUGAUGAG	GCCGUUAGGC	CGAA IGACUCUC	18231
8136	UCCUCGUC A AGUGCUGA	2924	UCAGCACU CUGAUGAG	GCCGUUAGGC	CGAA IACGAGGA	18232
8142	UCAAGUGC U GAGGUUGA	2925	UCAACCUC CUGAUGAG	GCCGUUAGGC	CGAA ICACUUGA	18233

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8156	UGAAGAGC A UAGGACGA	2926	UCGUCCUA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUUA	18234
8173	UUCGGGUC C UUGAAUUG	2927	CAUUUCAA CUGAUGAG	GCCGUUAGGC	CGAA IACCCGAA	18235
8174	UCGGGUCC U UGAAAUUG	2928	CCAUUUCA CUGAUGAG	GCCGUUAGGC	CGAA IGACCCGA	18236
8191	UUGAGGAC U GGCUGCAC	2929	GUGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCA	18237
8195	GGACUGGC U GCACCGAG	2930	CUCGGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUCC	18238
8198	CUGGUCGC A CCGAGGGC	2931	GCCUCGCG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCAG	18239
8200	GGCUGCAC C GAGGGCCA	2932	UGGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGCC	18240
8207	CCGAGGGC C AAGGGAAU	2933	AUUCUUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCGCG	18241
8208	CGAGGGCC A AGGGAAU	2934	AAUUCUU CUGAUGAG	GCCGUUAGGC	CGAA IGCCUCUG	18242
8231	GAAGGUGC U CUGCCCU	2935	AGGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICACCUUC	18243
8233	AGGUGCUC U GCCCUAC	2936	GUAGGGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCACCU	18244
8236	UGCUCUGC C CUACAUG	2937	CAUGUAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCA	18245
8237	GCUCUGCC C CUACAUGC	2938	GCAUGUAG CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAGC	18246
8238	CUCUGCCC C UACAUGCC	2939	GGCAUGUA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGAG	18247
8239	UCUGCCCC U ACAUGCCG	2940	CGGCAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGGGCAGA	18248
8242	GCCCUAC A UGCCGAAA	2941	UUUCGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUAGGGGC	18249
8246	CUACAUGC C GAAAGUCA	2942	UGACUUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGUAG	18250
8254	CGAAAGUC A UAGAGAAG	2943	CUUCUCUA CUGAUGAG	GCCGUUAGGC	CGAA IACUUUCG	18251
8270	GAUGGAGC U GCUCCAAC	2944	GUUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCCAUC	18252
8273	GGAGCUGC U CCAACGCC	2945	GGCGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUCC	18253
8275	AGCUGCUC C AACCCCGG	2946	CCGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGCU	18254
8276	GCUGCUCC A ACGCCGGU	2947	ACCGCGCU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGAGC	18255
8281	UCCAACGC C GGUAUGGG	2948	CCCAUACC CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGGA	18256
8297	GGGGGAC U GGUCAGAA	2949	UUCUGACC CUGAUGAG	GCCGUUAGGC	CGAA IUCCCCC	18257
8302	GACUGGUC A GAAACCCA	2950	UGGGUUUC CUGAUGAG	GCCGUUAGGC	CGAA IACCAGUC	18258
8308	UCAGAAAC C CACUCUCA	2951	UGAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUGA	18259
8309	CAGAAACC C ACUCUCAC	2952	GUGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA IGUUUCUG	18260
8310	AGAAACCC A CUCUCACG	2953	CGUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IGGUUUCU	18261
8312	AAACCCAC U CUCACGGA	2954	UCCGUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGGGUUU	18262
8314	ACCCACUC C CACGAAU	2955	AUUCGUG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGGU	18263
8316	CCACUCUC A CGGAAUUC	2956	GAAUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUGG	18264
8325	CGGAAUUC C ACGCACGA	2957	UCGUGCGU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUCG	18265
8326	GGAAUUC A CGCACGAG	2958	CUCGUGCG CUGAUGAG	GCCGUUAGGC	CGAA IGAAUUC	18266
8330	UCCACGC A CGAGAUGU	2959	ACAUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGGAA	18267
8355	AGUCGAGC U UCAGGCAA	2960	UUGCCUGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCGACU	18268
8358	CGAGCUUC A GGCAAUGU	2961	ACAUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAGCUCG	18269
8362	CUUCAGGC A AUGUGGUA	2962	UACCACAU CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAAG	18270
8372	UGUGGUAC A UUCAGUGA	2963	UCACUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUACCACA	18271
8376	GUACAUUC A GUGAAUAU	2964	AUAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUAC	18272
8388	AAUAUGAC C AGCCAGGU	2965	ACCUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUAUAU	18273
8389	AUAUGACC A GCCAGGUG	2966	CACCUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCAUAU	18274
8392	UGACCAGC C AGGUGCUC	2967	GAGCACCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUCA	18275
8393	GACCAGCC A GGUGCUC	2968	GGAGCACC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGUC	18276
8399	CCAGGUGC U CCUAGGAA	2969	UUCUAGG CUGAUGAG	GCCGUUAGGC	CGAA ICACCUUG	18277
8401	AGGUGCUC C UAGGAAGA	2970	UCUCCUA CUGAUGAG	GCCGUUAGGC	CGAA IAGCACCU	18278
8402	GGUGCUC C UAGGAAGA	2971	UUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGAGCACC	18279
8424	AAAAGGAC C UGGAAGGG	2972	CCCUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUU	18280
8425	AAAGGACC U GGAAGGGA	2973	UCCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUU	18281
8435	GAAGGGAC C CCAUACG	2974	CGUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUC	18282
8436	AAGGGACC C CAUACGA	2975	UCGUAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUU	18283
8437	AGGGACCC C AAUACGAG	2976	CUCGUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCU	18284
8438	GGGACCCC A AUACGAGG	2977	CCUCGUU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCC	18285
8458	AUGUAAAC U UGGGAAGU	2978	ACUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUUAU	18286
8472	AGUGGAAC C AGGGCGGU	2979	ACCGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCACU	18287
8473	GUGGAACC A GGGCGGUG	2980	CACCGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAC	18288
8489	GGGAAAAC C CCUGCUA	2981	UGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUCCC	18289
8490	GGAAAACC C CUGCUAA	2982	UUGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUUUCC	18290
8491	GA AAAACC C UGCUAAC	2983	GUUGAGCA CUGAUGAG	GCCGUUAGGC	CGAA IGGUUUC	18291
8492	AAAACCC U GCUCAACU	2984	AGUUGAGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUU	18292
8495	ACCCUGC U CAACUCAG	2985	CUGAGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGGGU	18293
8497	CCCGUC C A ACUCAGAC	2986	GUCUGAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGG	18294

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8500	UGCUC AAC U CAGACACC	2987	GGUGUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAGCA	18295
8502	CUCAACUC A GACACCAG	2988	CUGGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUGAG	18296
8506	ACUCAGAC A CCAGUAAA	2989	UUUACUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGAGU	18297
8508	UCAGACAC C AGUAAAAU	2990	AUUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCUGA	18298
8509	CAGACACC A GUAAAAUC	2991	GAUUUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUCUG	18299
8518	GUAAAAUC A AGAACAGG	2992	CCUGUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUUUAC	18300
8524	UCAAGAAC A GGAUUGAA	2993	UUCAAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUUGA	18301
8537	UGAACGAC U CAGGCGUG	2994	CACGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGUUCA	18302
8539	AACGACUC A GCGUGAG	2995	CUCACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCGUU	18303
8551	GUGAGUAC A GUUCGACG	2996	CGUCGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACUCAC	18304
8564	GACGUGGC A CCACGAUG	2997	CAUCGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACGUC	18305
8566	CGUGGCAC C ACGAUGAG	2998	CUCAUCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCACG	18306
8567	GUGGCACC A CGAUGAGA	2999	UCUCAUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCCAC	18307
8578	AUGAGAAC C ACCCAUUA	3000	AUAUGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCAU	18308
8579	UGAGAACC A CCCAUUA	3001	UAUAUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUCA	18309
8581	AGAACCAC C CAUAUAGA	3002	UCUAUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUCU	18310
8582	GAACCACC C AUAUAGAA	3003	UUCUAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGUUC	18311
8583	AACCACCC A UAUAGAAC	3004	GUUCUAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGGUU	18312
8592	UAUAGAAC C UGGAACUA	3005	UAGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUAUA	18313
8593	AUAGAACC U GGAACUAU	3006	AUAGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUAU	18314
8599	CCUGGAAC U AUCACGGC	3007	GCCGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCAGG	18315
8603	GAACUAUC A CGGCAGUU	3008	AACUGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGUUC	18316
8608	AUCACGGC A GUUAUGAU	3009	AUCAUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGUAU	18317
8624	UGUGAAGC C CACAGGCU	3010	AGCCUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCACA	18318
8625	GUGAAGCC C ACAGGCUC	3011	GAGCCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCAC	18319
8626	UGAAGCCC A CAGGCUC	3012	GGAGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUUCA	18320
8628	AAGCCAC A GGCUCGC	3013	GCGAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGCUU	18321
8632	CCACAGC U CCGCCAGU	3014	ACUGGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGUGG	18322
8634	ACAGGCUC C GCCAGUUC	3015	GAACUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUGU	18323
8637	GGCUCGC C AGUUCGU	3016	AGCGAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAGCC	18324
8638	GCUCGCC A GUUCGUG	3017	CAGCGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGAGC	18325
8645	CAGUUCGC U GGUCAAUG	3018	CAUUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAACUG	18326
8650	CGCUGGUC A AUGGAGUG	3019	CACUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAGCG	18327
8662	GAGUGGUC A GGCUCUC	3020	GAGGAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCACUC	18328
8666	GGUCAGGC U CCUCUCAA	3021	UUGAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGACC	18329
8668	UCAGGCUC C UCUCAAAA	3022	UUUUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUGA	18330
8669	CAGGCUC U CUAAAAC	3023	GUUUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCUG	18331
8671	GGCUCUC U CAAAACCA	3024	UGGUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGCC	18332
8673	CUCUCUC A AAACCAUG	3025	CAUGGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGAG	18333
8678	CUCAAAC C AUGGGACA	3026	UGUCCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUGAG	18334
8679	UCAAAACC A UGGGACAC	3027	GUGUCCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUUUGA	18335
8686	CAUGGGAC A CCAUCACG	3028	CGUGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCCAUG	18336
8688	UGGGACAC C AUCACGAA	3029	UUCGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCCCA	18337
8689	GGGACACC A UCACGAAU	3030	AUUCGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUCCC	18338
8692	ACACCAUC A CGAAUGUU	3031	AACAUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGUGU	18339
8703	AAUGUUAU C ACCAUGGC	3032	GCCAUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACAUU	18340
8704	AUGUUACC A CCAUGGCC	3033	GGCCAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUAAACU	18341
8706	GUUACCAC C AUGGCCAU	3034	AUGGCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUAA	18342
8707	UUACCACC A UGGCCAUG	3035	CAUGGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUAA	18343
8712	ACCAUGGC C AUGACUGA	3036	UCAGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUGGU	18344
8713	CCAUGGCC A UGACUGAC	3037	GUCAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAUGG	18345
8718	GCCAUGAC U GACACUAC	3038	GUAGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUGGC	18346
8722	UGACUGAC A CUACUCCC	3039	GGGAGUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGUCA	18347
8724	ACUGACAC U ACUCCCUU	3040	AAGGGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUCAGU	18348
8727	GACACUAC U CCCUUCGG	3041	CCGAAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGUGUC	18349
8729	CACUACUC C CUUCGGGC	3042	GCCCCGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUAGUG	18350
8730	ACUACUCC C UUCGGGCA	3043	UGCCCCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUAG	18351
8731	CUACUCCC U UCGGGCAG	3044	CUGCCCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGUAG	18352
8738	CUUCGGGC A GCAGCGAG	3045	CUCGCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGAAG	18353
8741	CGGGCAGC A GCGAGUGU	3046	ACACUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCCCG	18354
8752	GAGUGUUC A AAGAGAAG	3047	CUUCUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACACUC	18355

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8767	AGGUGGAC A CGAAAGCU	3048	AGCUUUCG CUGAUGAG	GCCGUUAGGC	CGAA IUCCACCU	18356
8775	ACGAAAGC U CCUGAACC	3049	GGUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUCGU	18357
8777	GAAAGCUC C UGAACCGC	3050	GCGGUUCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCUUUC	18358
8778	AAAGCUCC U GAACCGCC	3051	GGCGGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAGCUUU	18359
8783	UCCUGAAC C GCCAGAAG	3052	CUUCUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCAGGA	18360
8786	UGAACCGC C AGAAGGAG	3053	CUCCUUCU CUGAUGAG	GCCGUUAGGC	CGAA ICGGUUCA	18361
8787	GAACCGCC A GAAGGAGU	3054	ACUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGUUUC	18362
8807	GUACGUGC U CAAUGAGA	3055	UCUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICACGUAC	18363
8809	ACGUGCUC A AUGAGACC	3056	GGUCUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCACGU	18364
8817	AAUGAGAC C ACCAACUG	3057	CAGUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUCAUU	18365
8818	AUGAGACC A CCAACUGG	3058	CCAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCAU	18366
8820	GAGACCAC C AACUGGUU	3059	AACCAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUUC	18367
8821	AGACCACC A ACUGGUUG	3060	CAACCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUCU	18368
8824	CCACCAAC U GGUGUGG	3061	CCACAACC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGG	18369
8844	UUUUUGGC C AGAGAAAA	3062	UUUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAAAA	18370
8845	UUUUGGCC A GAGAAAAA	3063	UUUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGCCAAAA	18371
8858	AAAACGUC C CAGAAUGU	3064	ACAUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IACGUUUU	18372
8859	AAACGUCC C AGAAUGUG	3065	CACAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGACGUUU	18373
8860	AACGUCCC A GAAUGUGC	3066	GCACAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGACGUU	18374
8869	GAAUGUC U CUCGAGAG	3067	CUCUCGAG CUGAUGAG	GCCGUUAGGC	CGAA ICACAUUC	18375
8871	AUGUGCUC U CGAGAGGA	3068	UCCUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGACAUU	18376
8884	AGGAUUC A UAAGAAAG	3069	CUUUCUUA CUGAUGAG	GCCGUUAGGC	CGAA IAAUCCU	18377
8896	GAAAGGUC A ACAGCAAU	3070	AUUGCUGU CUGAUGAG	GCCGUUAGGC	CGAA IACCUIUC	18378
8899	AGGUCAAC A GCAUUGCA	3071	UGCAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGACCU	18379
8902	UCAACAGC A AUGCAGCU	3072	AGCUGCAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGA	18380
8907	AGCAAUGC A GCUUUGGG	3073	CCCAAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGCU	18381
8910	AAUGCAGC U UUGGGUGC	3074	GCACCCAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAUU	18382
8919	UUGGGUGC C AUGUUUGA	3075	UCAAACAU CUGAUGAG	GCCGUUAGGC	CGAA ICACCCAA	18383
8920	UGGGUGCC A UGUUUGAA	3076	UUCAACA CUGAUGAG	GCCGUUAGGC	CGAA IGCACCCA	18384
8933	UGAAGAGC A GAAUCAAU	3077	AUUGAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCA	18385
8939	GCAGAAUC A AUGGAGGA	3078	UCCUCCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGC	18386
8952	AGGAGCGC C AGAGAAGC	3079	GCUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCCU	18387
8953	GGAGCGCC A GAGAAGCA	3080	UGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICGCUCU	18388
8961	AGAGAAGC A GUUGAAGA	3081	UCUUC AAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCUCU	18389
8972	UGAAGAUC C AAAAUUUU	3082	AAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUCA	18390
8973	GAAGAUCC A AAAUUUUG	3083	CAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUUC	18391
9009	CGCGAGGC A CAUCUGCG	3084	CCGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICCUCGCG	18392
9011	CGAGGCAC A UCUGCGGG	3085	CCCGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGCCUCG	18393
9014	GGCACAU C GCGGGGGG	3086	CCCCCGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCC	18394
9029	GGAAUGUC A CACUUGCA	3087	UGCAAGUG CUGAUGAG	GCCGUUAGGC	CGAA IACAUUCC	18395
9031	AAUGUCAC A CUUGCAUU	3088	AAUGCAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACAUU	18396
9033	UGUCACAC U UGCAUUUA	3089	UAAAUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUGACA	18397
9037	ACACUUGC A UUAACAAC	3090	GUUGUAAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAGUGU	18398
9043	GCAUUUAC A ACAUGAUG	3091	CAUCAUGU CUGAUGAG	GCCGUUAGGC	CGAA IUAAUUGC	18399
9046	UUUACAAC A UGAUGGGA	3092	UCCCAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAAA	18400
9071	GA AAAAAC C CGGAGAGU	3093	ACUCUCCG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUUC	18401
9072	AAAAAAC C GGAGAGUU	3094	AACUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUUUUU	18402
9090	GGAAAGGC C AAGGGAAG	3095	CUUCCCUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUUCC	18403
9091	GAAAGGCC A AGGGAAGC	3096	GCUUCCCU CUGAUGAG	GCCGUUAGGC	CGAA IGCCUUUC	18404
9100	AGGGAAGC A GAGCCAUU	3097	AAUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCCU	18405
9105	AGCAGAGC C AUUUGGUU	3098	AACCAAU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCU	18406
9106	GCAGAGCC A UUUGGUUC	3099	GAACCAA CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUGC	18407
9115	UUUGGUUC A UGUGGCUC	3100	GAGCCACA CUGAUGAG	GCCGUUAGGC	CGAA IAACCAA	18408
9122	CAUGUGGC U CGGAGCUC	3101	GAGCUCG CUGAUGAG	GCCGUUAGGC	CGAA ICCACAUG	18409
9129	CUCGAGC U CGCUUUCU	3102	AGAAAGCG CUGAUGAG	GCCGUUAGGC	CGAA ICUCGAG	18410
9133	GAGCUCGC U UUCUGGAG	3103	CUCCGAA CUGAUGAG	GCCGUUAGGC	CGAA ICGAGCUC	18411
9137	UCGCUUUC U GGAGUUCG	3104	CGAACUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCGA	18412
9150	UUCGAGGC U CUGGGUUU	3105	AAACCCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCUCGAA	18413
9152	CGAGGCUC U GGGUUUUC	3106	GA AAACCC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCUCG	18414
9161	GGGUUUUC U CAAUGAAG	3107	CUUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAACCC	18415
9163	GUUUUCUC A AUGAAGAC	3108	GUCUUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAAC	18416

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9172	AUGAAGAC C ACUGGCUU	3109	AAGCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUUCAU	18417
9173	UGAAGACC A CUGGCUUG	3110	CAAGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUCU	18418
9175	AAGACCAC U GGCUGGA	3111	UCCAAGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCUU	18419
9179	CCACUGGC U UGGAAGAA	3112	UUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUGG	18420
9193	GAAAGAAC U CAGGAGGA	3113	UCCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUUC	18421
9195	AAGAACUC A GGAGGAGG	3114	CCUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCUU	18422
9214	UCGAGGGC U UGGGCCUC	3115	GAGGCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCUCUGA	18423
9220	GCUUGGGC C UCCAAAAA	3116	UUUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCCAAGC	18424
9221	CUUGGGCC U CCAAAAC	3117	GUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCCCAAG	18425
9223	UGGGCCUC C AAAACUG	3118	CAGUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCCA	18426
9224	GGGCCUCC A AAAACUGG	3119	CCAGUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGGCC	18427
9230	CCAAAAAC U GGGUACA	3120	UGUAACCC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGG	18428
9238	UGGGUAC A UCCUGGU	3121	ACGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IUAACCCA	18429
9241	GUUACAUC C UGCGUGAA	3122	UUCACGCA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAC	18430
9242	UUACAUC U GCGUGAA	3123	CUUACGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUAA	18431
9256	AAGUUGGC A CCCGCCU	3124	AGGCCGG CUGAUGAG	GCCGUUAGGC	CGAA ICCAACUU	18432
9258	GUUGGCAC C CGGCCUGG	3125	CCAGGCCG CUGAUGAG	GCCGUUAGGC	CGAA IUGCCAAC	18433
9259	UUGGCACC C GGCCUGGG	3126	CCAGGCC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCAA	18434
9263	CACCCGGC C UGGGGGCA	3127	UGCCCCCA CUGAUGAG	GCCGUUAGGC	CGAA ICCGGGUG	18435
9264	ACCCGGCC U GGGGGCAA	3128	UUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IGCCGGGU	18436
9271	CUGGGGGC A AGAUCUAU	3129	AUAGAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAG	18437
9277	GCAAGAU C AUGCUGAU	3130	AUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGC	18438
9282	AUCUAUGC U GAUGACAC	3131	GUGUCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUAGAU	18439
9289	CUGAUGAC A CAGCUGG	3132	GCCAGCUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCAG	18440
9291	GAUGACAC A GCUGGUG	3133	CAGCCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAUC	18441
9294	GACACAGC U GCGUGGA	3134	UCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUGUC	18442
9298	CAGCUGGC U GGGACACC	3135	GGUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICCAGCUG	18443
9304	GCUGGGAC A CCCGCAUC	3136	GAUGCGGG CUGAUGAG	GCCGUUAGGC	CGAA IUCCAGC	18444
9306	UGGGACAC C CGCAUCAC	3137	GUGAUGCG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCCA	18445
9307	GGGACACC C GCAUCACG	3138	CGUGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCC	18446
9310	ACACCCGC A UCACGAGA	3139	UCUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGU	18447
9313	CCCGCAUC A CGAGAGCU	3140	AGCUCUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCGGG	18448
9321	ACGAGAGC U GACUUGGA	3141	UCCAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCGU	18449
9325	GACUGAGC U UGGAAAAU	3142	AUUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCUU	18450
9339	AAUGAAGC U AAGGUGCU	3143	AGCACCUU CUGAUGAG	GCCGUUAGGC	CGAA ICACCUUA	18451
9347	UAAGGUGC U UGAGCUGC	3144	GCAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ICACCUUA	18452
9353	GCUUGAGC U GCUUGAUG	3145	CAUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAAGC	18453
9356	UGAGCUGC U UGAUGGGG	3146	CCCCAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUCA	18454
9368	UGGGGAAC A UCGGCGUC	3147	GACGCCGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCCA	18455
9377	UCGGCGUC U UGCCAGGG	3148	CCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA IACGCCGA	18456
9381	CGUCUUGC C AGGGCCAU	3149	AUGGCCCU CUGAUGAG	GCCGUUAGGC	CGAA ICAAGACG	18457
9382	GUCUUGCC A GGGCAUC	3150	GAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGAC	18458
9387	GCCAGGCC C AUCAUUGA	3151	UCCAAGU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUGG	18459
9388	CCAGGGCC A UCAUUGAG	3152	CUCAAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGG	18460
9391	GGGCCAUC A UUGAGCUC	3153	GAGCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCC	18461
9398	CAUUGAGC U CACCUAUC	3154	GAUAGGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUG	18462
9400	UUGAGCUC A CCUAUCGU	3155	ACGAUAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCAA	18463
9402	GAGCUCAC C UAUCGUCA	3156	UGACGAUA CUGAUGAG	GCCGUUAGGC	CGAA IUGAGCUC	18464
9403	AGCUCACC U AUCGUCAC	3157	GUGACGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGCU	18465
9410	CUAUCGUC A CAAAGUUG	3158	CAACUUUG CUGAUGAG	GCCGUUAGGC	CGAA IACGAUAG	18466
9412	AUCGUCAC A AAGUUGUG	3159	CACAACUU CUGAUGAG	GCCGUUAGGC	CGAA IUGACGAU	18467
9433	UGAUGCGC C CGGCGUCU	3160	AGCAGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICGCAUC	18468
9434	GAUGCGCC C GGCUGCUG	3161	CAGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA ICGCAUC	18469
9438	CGCCCGGC U GCUGAUGG	3162	CCAUCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGGCG	18470
9441	CCGGCUGC U GAUGGAAG	3163	CUUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCGG	18471
9453	GGAAGAAC C GUCAUGGA	3164	UCCAUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUC	18472
9457	GAACCGUC A UGGAUGUU	3165	AACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUC	18473
9469	AUGUUAUC U CCAGAGAA	3166	UUCUCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUAAAU	18474
9471	GUUAUCUC C AGAGAAGA	3167	UCUUCUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUAA	18475
9472	UUAUCUCC A GAGAAGAU	3168	AUCUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUAA	18476
9482	AGAAGAUC A GAGGGGA	3169	UCCCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUCU	18477

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9497	GAGUGGAC A AGUUGUCA	3170	UGACAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCACUC	18478
9505	AAGUUGUC A CCUACGCC	3171	GGCGUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAACUU	18479
9507	GUUGUCAC C UACGCCCU	3172	AGGGCGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACAAAC	18480
9508	UUGUCACC U ACGCCCUA	3173	UAGGGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGACAA	18481
9513	ACCUACGC C CUAACAC	3174	GUGUUUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUAGGU	18482
9514	CCUACGCC C UAAACACU	3175	AGUGUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGAGG	18483
9515	CUACGCC U AAACACUU	3176	AAGUGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCGUAG	18484
9520	CCCUAAAC A CUUUCACC	3177	GGUGAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUAGGG	18485
9522	CUAACAC U UUCACCAA	3178	UUGUGUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUUAG	18486
9526	ACACUUUC A CCAACCUG	3179	CAGGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGUGU	18487
9528	ACUUUCAC C AACCGGC	3180	GCCAGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAAGU	18488
9529	CUUUCACC A ACCUGGCC	3181	GGCCAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAAAG	18489
9532	UCACCAAC C UGGCCGUC	3182	GACGCGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGUGA	18490
9533	CACCAACC U GGCCGUCC	3183	GGACGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGGUG	18491
9537	AACCUGGC C GUCCAGCU	3184	AGCUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGGUU	18492
9541	UGGCCGUC C AGCUGGUG	3185	CACCAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGCGCA	18493
9542	GGCCGUCC A GCUGGUGA	3186	UCACCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACGGCC	18494
9545	CGUCCAGC U GGUGAGGA	3187	UCCUCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGACG	18495
9580	GAUUGGC C CAGAUGAU	3188	AUCAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAAUCA	18496
9581	GAUUGGCC C AGAUGAU	3189	CAUCAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAAUC	18497
9582	AUUGGCCC A GAUGAUGU	3190	ACAUCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCCAAU	18498
9599	GGAGAAAC U CACAAAAG	3191	CUUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUUCC	18499
9601	AGAAACUC A CAAAAGGG	3192	CCUUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUUCU	18500
9603	AAACUCAC A AAAGGGAA	3193	UUCUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGUUU	18501
9617	GAAAGGAC C CAAAGUCA	3194	UGACUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUUUC	18502
9618	AAAGGACC C AAAGUCAG	3195	CUGACUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCUUU	18503
9619	AAGGACCC A AAGUCAGG	3196	CCUGACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUCCUU	18504
9625	CCAAAGUC A GGACCUGG	3197	CCAGGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUUGG	18505
9630	UCAGGAC C UGGCUGUU	3198	AACAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCUGAC	18506
9631	UCAGGACC U GGCUGUUU	3199	AAACAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCUGA	18507
9635	GACCUGGC U GUUUGAGA	3200	UCUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGGUC	18508
9659	AGAAAGAC U CAGCCGCA	3201	UGC GGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUUCU	18509
9661	AAAGACUC A GCCGCAUG	3202	CAUGCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCUUU	18510
9664	GACUCAGC C GCAUGGCU	3203	AGCCAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAGUC	18511
9667	UCAGCCGC A UGGCUGUC	3204	GACAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUGA	18512
9672	CGCAUGGC U GUCAGUGG	3205	CCACUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUGCG	18513
9676	UGGCGUC A GUGGAGAU	3206	AUUCCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGCCA	18514
9688	GAGAUGAC U GUGUGGUA	3207	UACCACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUCUC	18515
9701	GUAAAGC C CCUGGACG	3208	CGUCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUACC	18516
9702	GUAAAGCC C CUGGACGA	3209	UCGUCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUUUAC	18517
9703	UAAAGCCC C UGGACGAU	3210	AUCGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUUUA	18518
9704	AAAGCCCC U GGACGAUC	3211	GAUCGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCUUU	18519
9715	ACGAUCGC U UUGCCACC	3212	GGUGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUCGU	18520
9720	CGCUUUGC C ACCUCGCU	3213	AGCGAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAGCG	18521
9721	GUUUUGCC A CCUCGCUC	3214	GAGCGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAAGC	18522
9723	UUUGCCAC C UCGUCCA	3215	UGGAGCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCAA	18523
9724	UUGCCACC U CGUCCAC	3216	GUGGAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCAA	18524
9728	CACCUCGC U CCACUCC	3217	GGAAGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGGUG	18525
9730	CCUCGCUC C ACUCCUC	3218	GAGGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCGAGG	18526
9731	CUCGCUC A CUUCCUCA	3219	UGAGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCGAG	18527
9733	CGCUCAC U UCCUCAU	3220	AUUGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGCG	18528
9736	UCCACUUC C UCAAUGCU	3221	AGCAUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUGGA	18529
9737	CCACUUC U CAAUGCUA	3222	UAGCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUGG	18530
9739	ACUUCUC A AUGCUAUG	3223	CAUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAGU	18531
9744	CUCAAUGC U AUGUCAA	3224	UUUGACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGAG	18532
9750	GUUAUGUC A AAGGUUCG	3225	CGAACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAAGC	18533
9760	AGGUUCGC A AAGACAUC	3226	GAUGUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAACCU	18534
9766	GCAAAGAC A UCCAAGAG	3227	CUCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUUGC	18535
9769	AAGACAUC C AAGAGUGG	3228	CCACUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUUU	18536
9770	AGACAUC A AGAGUGGA	3229	UCCACUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGUCU	18537
9782	GUGGAAAC C GUCAACUG	3230	CAGUUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCAC	18538

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9786	AAACCGUC A ACUGGAUG	3231	CAUCCAGU CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUU	18539
9789	CCGUCAAC U GGAUGGUA	3232	UACCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUUGACGG	18540
9806	UGAUUGGC A GCAGGUUC	3233	GAACCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUCA	18541
9809	UUGGCAGC A GGUUCCAU	3234	AUGGAACC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCAA	18542
9815	GCAGGUUC C AUUUUGCU	3235	AGCAAAAU CUGAUGAG	GCCGUUAGGC	CGAA IAACCUGC	18543
9816	CAGGUUCC A UUUUGCUC	3236	GAGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGAACCTUG	18544
9823	CAUUUUGC U CAAACCAU	3237	AUGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAUG	18545
9825	UUUUGCUC A AACCAUUU	3238	AAUUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAAA	18546
9829	GCUCAAAC C AUUUCACU	3239	AGUGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGAGC	18547
9830	CUCAAAAC A UUUCACUG	3240	CAGUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGUUUGAG	18548
9835	ACCAUUUC A CUGAAUUG	3241	CAAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGU	18549
9837	CAUUUCAC U GAAUUGAU	3242	AUCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAUG	18550
9847	AAUUGAUC A UGAAAGAU	3243	AUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAUU	18551
9864	GGAAGAAC A CUGGUGGU	3244	ACCACCAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUCC	18552
9866	AAGAACAC U GGUGGUUC	3245	GAACCACC CUGAUGAG	GCCGUUAGGC	CGAA IUGUUCUU	18553
9875	GGUGGUUC C AUGCCGAG	3246	CUCGGCAU CUGAUGAG	GCCGUUAGGC	CGAA IAACCACC	18554
9876	GUGGUUCC A UGCCGAGG	3247	CCUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGAACCAC	18555
9880	UUCCAUGC C GAGGACAG	3248	CUGGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUGAGG	18556
9887	CCGAGGAC A GGAUGAAU	3249	AUUCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCGG	18557
9904	UGGUAGGC A GAGCUCGC	3250	GCGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCUACCA	18558
9909	GGCAGAGC U CGCAUAUC	3251	GAUAUGCG CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGCC	18559
9913	GAGCUCGC A UAUCUCCA	3252	UGGAGAUU CUGAUGAG	GCCGUUAGGC	CGAA ICGAGCUC	18560
9918	CGCAUAUC U CCAGGGGC	3253	GCCCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCG	18561
9920	CAUAUCUC C AGGGGCCG	3254	CGGCCCCU CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUUG	18562
9921	AUAUCUCC A GGGGCCGG	3255	CCGGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUUG	18563
9927	CCAGGGGC C GGAUGGAA	3256	UCCAUCUC CUGAUGAG	GCCGUUAGGC	CGAA ICCCCUGG	18564
9940	GGAACGUC C GCGACACU	3257	AGUGUCGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGUUCC	18565
9946	UCCGCGAC A CUGCUUGU	3258	ACAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUCGCGGA	18566
9948	CGCGACAC U GCUUGUCU	3259	AGACAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGUCGCG	18567
9951	GACACUGC U UGUCUGGC	3260	GCCAGACA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUGUC	18568
9956	UGCUGUC U GGCUAAGU	3261	ACUUAGCC CUGAUGAG	GCCGUUAGGC	CGAA IACAAGCA	18569
9960	UGUCUGGC U AAGUCUUA	3262	UAAGACUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGACA	18570
9966	GCUAAGUC U UAUGCCCA	3263	UGGGCAUA CUGAUGAG	GCCGUUAGGC	CGAA IACUAGC	18571
9972	UCUUAUGC C CAGAUGUG	3264	CACAUUCG CUGAUGAG	GCCGUUAGGC	CGAA ICAUAAGA	18572
9973	CUUAUGCC C AGAUGUGG	3265	CCACAUCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAUAA	18573
9974	UAUAUGCC A GAUGUGGC	3266	GCCACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUAA	18574
9983	GAUGUGGC U GCUUCUGU	3267	ACAGAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAUC	18575
9986	GUGGCUGC U UCUGUACU	3268	AGUACAGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCAC	18576
9989	GCUGCUUC U GUACUCC	3269	GGAAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGC	18577
9994	UUCUGUAC U UCCACAGA	3270	UCUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUACAGAA	18578
9997	UGUACUUC C ACAGAAGA	3271	UCUUCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUACA	18579
9998	GUACUUC C CAGAAGAG	3272	CUCUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUAC	18580
10000	ACUCCAC A GAAGAGAC	3273	GUCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAGU	18581
10009	GAAGAGAC C UGCGCUC	3274	GAGCCGCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUUC	18582
10010	AAGAGACC U GCGGCUCA	3275	UGAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUCUU	18583
10016	CCUGCGGC U CAUGGCCA	3276	UGGCCAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCAGG	18584
10018	UGCGGCUC A UGGCCAAC	3277	GUUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCGCA	18585
10023	CUCAUGGC C AACGCCAU	3278	AUGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUGAG	18586
10024	UCAUGGCC A ACGCCAUI	3279	AAUGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUGA	18587
10029	GCCAACGC C AUUUGCUC	3280	GAGCAAAU CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGGC	18588
10030	CCAACGCC A UUUGCUCC	3281	GGAGCAAA CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGG	18589
10036	CCAUUUGC U CCGUGUC	3282	GACAGCGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAUGG	18590
10038	AUUUGCUC C CGUGUCC	3283	GACAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAAU	18591
10041	UGCUCGCG U GUCCUGU	3284	ACAGGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAGCA	18592
10045	CCGUGUC C CUGUGAAU	3285	AUUCACAG CUGAUGAG	GCCGUUAGGC	CGAA IACAGCGG	18593
10046	CGCUGUCC C UGUGAAU	3286	AAUUCACA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGCG	18594
10047	GCUGUCC U GUGAAUUG	3287	CAAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGACAGC	18595
10060	AUUGGGUC C CUACCGGA	3288	UCCGGUAG CUGAUGAG	GCCGUUAGGC	CGAA IACCCAAU	18596
10061	UUGGGUCC C UACCGGAA	3289	UUCGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGACCCAA	18597
10062	UGGGUCC U ACCGGAAG	3290	CUUCGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGACCCA	18598
10065	GUCCUAC C GGAAGAAC	3291	GUUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IUAGGGAC	18599

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10074	GGAAGAAC	C	ACGUGGUC	3292	GACCACGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUCC	18600
10075	GAAGAACC	A	CGUGGUCC	3293	GGACCACG	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCUUC	18601
10083	ACGUGGUC	C	AUCCAUGC	3294	GCAUGGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IACCACGU	18602
10084	CGUGGUCC	A	UCCAUGCA	3295	UGCAUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGACCACG	18603
10087	GGUCCAUC	C	AUGCAGGA	3296	UCCUGCAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGACC	18604
10088	GUCCAUC	A	UGCAGGAG	3297	CUCCUGCA	CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGGAC	18605
10092	AUCCAUGC	A	GGAGGAGA	3298	UCUCCUCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICAUGGAU	18606
10110	UGGAUGAC	A	ACAGAGGA	3299	UCCUCUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUCCA	18607
10113	AUGACAAC	A	GAGGACAU	3300	AUGUCCUC	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUCAU	18608
10120	CAGAGGAC	A	UGUGGAG	3301	CUCCAACA	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUCUG	18609
10132	UGGAGGUC	U	GGAACCGU	3302	ACGGUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGCA	18610
10138	UCUGGAAC	C	GUGUUUGG	3303	CCAAACAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAGA	18611
10174	UGGAAGAC	A	AAACCCCA	3304	UGGGGUUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCCA	18612
10179	GACAAAAC	C	CCAGUGGA	3305	UCCACUGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUUUUGUC	18613
10180	ACAAAACC	C	CAGUGGAG	3306	CUCCACUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUUUGU	18614
10181	CAAAACCC	C	AGUGGAGA	3307	UCUCCACU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGUUUUG	18615
10182	AAAACCCC	A	GUGGAGAA	3308	UUCUCCAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGGGUUUU	18616
10204	GUGACGUC	C	CAUAUUCA	3309	UGAAUAUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACGUCAC	18617
10205	UGACGUCC	C	AUAUUCAG	3310	CUGAAUAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGACGUCA	18618
10206	GACGUCC	A	UAUUCAGG	3311	CCUGAAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGGACGUC	18619
10212	CCAUAUUC	A	GGAAAACG	3312	CGUUUUCC	CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUUGG	18620
10228	GAGAGGAC	A	UCUGGUGU	3313	ACACCAGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUCUC	18621
10231	AGGACAUC	U	GGUGUGGC	3314	GCCACACC	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUCCU	18622
10240	GGUGUGGC	A	GCCUGAUU	3315	AAUCAGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCACACC	18623
10243	GUGGCAGC	C	UGAUUGGC	3316	GCCAAUCA	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCCAC	18624
10244	UGGCAGCC	U	GAUUGGCA	3317	UGCCAAUC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGCCA	18625
10252	UGAUUGGC	A	CAAGAGCC	3318	GGCUCUUG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAUCA	18626
10254	AUUGGCAC	A	AGAGCCCG	3319	CGGGCUCU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCAAU	18627
10260	ACAAGAGC	C	CGAGCCAC	3320	GUGGCUCG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUUGU	18628
10261	CAAGAGCC	C	GAGCCACG	3321	CGUGGCUC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUCUUGG	18629
10266	GCCCAGC	C	ACGUGGGC	3322	GCCCACGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCGGGC	18630
10267	CCCAGGCC	A	CGUGGGCA	3323	UGCCCACG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCGGG	18631
10275	ACGUGGGC	A	GAAAACAU	3324	AUGUUUUC	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCACGU	18632
10282	CAGAAAAC	A	UCCAGGUG	3325	CACCUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUUUCUG	18633
10285	AAAACAUC	C	AGUGGGCU	3326	AGCCACCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUUUU	18634
10286	AAACAUC	A	GGUGGCUA	3327	UAGCCACC	CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGUUU	18635
10293	CAGGUGGC	U	AUCAACCA	3328	UGGUUGAU	CUGAUGAG	GCCGUUAGGC	CGAA	ICCACCUG	18636
10297	UGGCUAUC	A	ACCAAGUC	3329	GACUUGGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAUAGCCA	18637
10300	CUAUAAC	C	AAGUCAGA	3330	UCUGACUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUAUAG	18638
10301	UAUCAACC	A	AGUCAGAG	3331	CUCUGACU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUAUA	18639
10306	ACCAAGUC	A	GAGCAAUC	3332	GAUUGCUC	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUGGU	18640
10311	GUAGAGC	A	AUCAUCGG	3333	CCGAUGAU	CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUGAC	18641
10315	GAGCAAUC	A	UCGGAGAU	3334	AUCUCCGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGCUC	18642
10342	UGGAUUAC	A	UGAGUUCA	3335	UGAACUCA	CUGAUGAG	GCCGUUAGGC	CGAA	IUAUCCA	18643
10350	AUGAGUUC	A	CUAAAGAG	3336	CUCUUUAG	CUGAUGAG	GCCGUUAGGC	CGAA	IAACUCAU	18644
10352	GAGUUCAC	U	AAAGAGAU	3337	AUCUCUUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGAACUC	18645
10369	AUGAAGAC	A	CAACUUUG	3338	CAAAGUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUUAU	18646
10371	GAAGACAC	A	ACUUUGGU	3339	ACCAAAGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUUUC	18647
10374	GACACAAC	U	UUGGUUGA	3340	UCAACCAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGUC	18648
10387	UUGAGGAC	A	CAGUACUG	3341	CAGUACUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUCA	18649
10389	GAGGACAC	A	GUACUGUA	3342	UACAGUAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCCUC	18650
10394	CACAGUAC	U	GUAGAUAU	3343	AUAUCUAC	CUGAUGAG	GCCGUUAGGC	CGAA	IUACUGUG	18651
10409	AUUUAAUC	A	AUUGUAAA	3344	UUUACAAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAUUAAAU	18652
10423	AAAUAGAC	A	AUAUAAGU	3345	ACUUAUAU	CUGAUGAG	GCCGUUAGGC	CGAA	IUCUAUUU	18653
10436	AAGUAUGC	A	UAAAAGUG	3346	CACUUUUA	CUGAUGAG	GCCGUUAGGC	CGAA	ICAUACUU	18654
10509	AGAAAGUC	A	GCCCGGGA	3347	UCCCGGCC	CUGAUGAG	GCCGUUAGGC	CGAA	IACUUUCU	18655
10513	AGUCAGGC	C	GGGAAGUU	3348	AACUUCCC	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGACU	18656
10523	GGAAGUUC	C	CGCCACCG	3349	CGGUGGCG	CUGAUGAG	GCCGUUAGGC	CGAA	IAACUUC	18657
10524	GAAGUUC	C	GCCACCGG	3350	CCGGUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUUC	18658
10527	GUUCCCGC	C	ACCGGAAG	3351	CUUCCGGU	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGGAAC	18659
10528	UUCCCGCC	A	CCGGAAGU	3352	ACUCCGGG	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGGAA	18660

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10530	CCCGCCAC C GGAAGUUG	3353	CAACUUC CUGAUGAG	GCCGUUAGGC	CGAA IUGGCGGG	18661
10551	GACGGUGC U GCCUGCGA	3354	UCCGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICACCGUC	18662
10554	GGUGCUGC C UGCGACUC	3355	GAGUCGCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCACC	18663
10555	GUGCUGCC U GCGACUCA	3356	UGAGUCGC CUGAUGAG	GCCGUUAGGC	CGAA IGCGACAC	18664
10561	CCUGCGAC U CAACCCCA	3357	UGGGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCGAGG	18665
10563	UGCGACUC A ACCCCAGG	3358	CCUGGGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCGCA	18666
10566	GACUCAAC C CCAGGAGG	3359	CCUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGUC	18667
10567	ACUCAACC C CAGGAGGA	3360	UCCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGAGU	18668
10568	CUCAACCC C AGGAGGAC	3361	GUCCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGAG	18669
10569	UCAACCCC A GGAGGACU	3362	AGUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGA	18670
10577	AGGAGGAC U GGGUGAAC	3363	GUUCACCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCU	18671
10586	GGGUGAAC A AAGCCGCG	3364	CGCGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCACCC	18672
10591	AACAAAGC C CGAAAGUG	3365	CACUUCGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGUUU	18673
10603	AAGUGAUC C AUGUAAGC	3366	GCUUAACU CUGAUGAG	GCCGUUAGGC	CGAA IAUACAUU	18674
10604	AGUGAUCC A UGUAAGCC	3367	GGCUUACA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCACU	18675
10612	AUGUAAGC C CUCAGAAC	3368	GUUCUGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUUACAU	18676
10613	UGUAAGCC C UCAGAACC	3369	GGUUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUUACA	18677
10614	GUAAGCCC U CAGAACCG	3370	CGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUAC	18678
10616	AAGCCCUU A GAACCGUC	3371	GACGGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGGCUU	18679
10621	CUCAGAAC C GUCUCGGA	3372	UCCGAGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGAG	18680
10625	GAACCGUC U CGGAAGGA	3373	UCCUUCGG CUGAUGAG	GCCGUUAGGC	CGAA IACGGUUC	18681
10638	AGGAGGAC C CCACAUGU	3374	ACAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGCUCCU	18682
10639	GGAGGACC C CACAUGUU	3375	AACAUGUG CUGAUGAG	GCCGUUAGGC	CGAA IUGCUCC	18683
10640	GAGGACCC C ACAUGUUG	3376	CAACAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCUC	18684
10641	AGGACCCC A CAUGUUGU	3377	ACAACAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCU	18685
10643	GACCCAC A UGUUGUAA	3378	UUAACAAC CUGAUGAG	GCCGUUAGGC	CGAA IUGGGGUC	18686
10653	GUUGUAAC U UCAAAGCC	3379	GGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUACAAC	18687
10656	GUAACUUC A AAGCCCAA	3380	UUGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUAC	18688
10661	UUCAAAGC C CAAUGUCA	3381	UGACAUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUGAA	18689
10662	UCAAAAGC C AAUGUCAG	3382	CUGACAUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUUUGA	18690
10663	CAAAGCCC A AUGUCAGA	3383	UCUGACAU CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUUG	18691
10669	CCAAUGUC A GACCACGC	3384	GCGUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IACAUUGG	18692
10673	UGUCAGAC C ACGCUACG	3385	CGUAGCGU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGACA	18693
10674	GUCAGACC A CGCUACGG	3386	CCGUAGCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGAC	18694
10678	GACCACGC U ACGGCGUG	3387	CAGCCCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUGGUC	18695
10688	CGGCGUGC U ACUCUGCG	3388	CGCAGAGU CUGAUGAG	GCCGUUAGGC	CGAA ICACGCCG	18696
10691	CGUGCUAC U CUGCGGAG	3389	CUCCGCG CUGAUGAG	GCCGUUAGGC	CGAA IUAGCACG	18697
10693	UGCUCUAC U GCGGAGAG	3390	CUCUCCGC CUGAUGAG	GCCGUUAGGC	CGAA IAGUAGCA	18698
10705	GAGAGUGC A GUCUGCGA	3391	UCCGAGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACUCUC	18699
10709	GUGCAGUC U GCGAUAGU	3392	ACUUAUCG CUGAUGAG	GCCGUUAGGC	CGAA IACUGCAC	18700
10720	GAUAGUGC C CCAGGAGG	3393	CCUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUC	18701
10721	AUAGUGCC C CAGGAGGA	3394	UCCUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCACUAU	18702
10722	UAGUGCCC C AGGAGGAC	3395	GUCCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCACTA	18703
10723	AGUGCCCC A GGAGGACU	3396	AGUCCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGCACU	18704
10731	AGGAGGAC U GGGUUAAC	3397	GUUAACCC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCCU	18705
10740	GGGUUAAC A AAGGCAA	3398	UUUGCCUU CUGAUGAG	GCCGUUAGGC	CGAA IUUAACCC	18706
10746	ACAAAGGC A AACCAACG	3399	CGUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCUUUGU	18707
10750	AGGCAAAC C AACGCCCC	3400	GGGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGCCU	18708
10751	GGCAAAAC A ACGCCCCA	3401	UGGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGCC	18709
10756	ACCAACGC C CCACGCGG	3402	CCGCGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGGU	18710
10757	CCAACGCC C CACGCGGC	3403	GCCGCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGUUGG	18711
10758	CAACGCCC C ACGCGGCC	3404	GGCGCGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCGUUG	18712
10759	AACGCCCC A CGCGGCC	3405	GGGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGCGUU	18713
10766	CACGCGGC C CUAGCCCC	3406	GGGGCUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCGCGUG	18714
10767	ACGCGGCC C UAGCCCCG	3407	CGGGGCUA CUGAUGAG	GCCGUUAGGC	CGAA IGGCGGU	18715
10768	CGCGGCC U AGCCCCG	3408	CCGGGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCGCG	18716
10772	GCCCUAGC C CCGUAAU	3409	AUUACCG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGGGC	18717
10773	CCCUAGCC C CGGUAAUG	3410	CAUUACCG CUGAUGAG	GCCGUUAGGC	CGAA IGCUAGGG	18718
10774	CCUAGCCC C GGUAAUGG	3411	CCAUUACC CUGAUGAG	GCCGUUAGGC	CGAA IGGCUAGG	18719
10790	GUGUUAAC C AGGGCGAA	3412	UUCGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUUAACAC	18720
10791	UGUUAACC A GGGCGAAA	3413	UUUCGCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUUAACA	18721

Table IV

10804	GAAAGGAC U AGAGGUUA	3414	UAACCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUUUC	18722
10821	GAGGAGAC C CCGCGGUU	3415	AACCGCGG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCUC	18723
10822	AGGAGACC C CGCGGUUU	3416	AAACCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCU	18724
10823	GGAGACCC C GCGGUUUA	3417	UAAACCGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCC	18725
10838	UAAAGUGC A CGGCCAG	3418	CUGGGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICACUUUA	18726
10843	UGCACGGC C CAGCCTUGA	3419	UCAGGCUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGCA	18727
10844	GCACGGCC C AGCCUGAC	3420	GUCAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCCGUGC	18728
10845	CACGGCCC A GCCUGACU	3421	AGUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCGUG	18729
10848	GGCCACGC C UGACUGAA	3422	UUCAGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGCC	18730
10849	GCCACGCC U GACUGAAG	3423	CUUCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGGC	18731
10853	AGCCUGAC U GAAGCTUGU	3424	ACAGCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUCAGGCU	18732
10859	ACUGAAGC U GUAGGUCA	3425	UGACCUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUCAGU	18733
10867	UGUAGGUC A GGGGAAGG	3426	CCUJCCCC CUGAUGAG	GCCGUUAGGC	CGAA IACCUACA	18734
10878	GGAAGGAC U AGAGGUUA	3427	UAACCUCU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCC	18735
10895	GUGGAGAC C CCGUGCCA	3428	UGGCACGG CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCAC	18736
10896	UGGAGACC C CGUGCCAC	3429	GUGGCACG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCCA	18737
10897	GGAGACCC C GUGCCACA	3430	UGUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUCUCC	18738
10902	CCCGUGGC C ACAAACA	3431	UGUUUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICACGGGG	18739
10903	CCCGUGGC A CAAACAC	3432	GUGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCACGGG	18740
10905	CGUGCCAC A AAACACCA	3433	UGGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCACG	18741
10910	CACAAAC A CCACAACA	3434	UGUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUG	18742
10912	CAAAACAC C ACAACAAA	3435	UUUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUUG	18743
10913	AAAACACC A CAACAAA	3436	UUUUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUUU	18744
10915	AACACCAC A ACAAACA	3437	UGUUUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGUUU	18745
10918	ACCACAAC A AACACAGA	3438	UGCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGU	18746
10923	AACAAAAC A GCAUAUUG	3439	CAUAUUGC CUGAUGAG	GCCGUUAGGC	CGAA IUUUUGUU	18747
10926	AAAACAGC A UAUUGACA	3440	UGUCAUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUUU	18748
10934	AUAUUGAC A CCUGGGAU	3441	AUCCCAGG CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUAU	18749
10936	AUUGACAC C UGGGAUAG	3442	CUAUCCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAAU	18750
10937	UUGACACC U GGGAUAGA	3443	UCUAUCCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCA	18751
10947	GGAUAGAC U AGGAGAUC	3444	GAUCUCCU CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUCC	18752
10956	AGGAGAUC U UCUGUCU	3445	AGAGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUCC	18753
10959	AGAUCUUC U GCUCUGCA	3446	UGCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUCU	18754
10962	UCUUCUGC U UGCACAA	3447	UGUGAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAGA	18755
10964	UUCUGCUC U GCACAACC	3448	GGUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAGAA	18756
10967	UGCUCUGC A CAACCAGC	3449	GCUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCA	18757
10969	CUCUGCAC A ACCAGCCA	3450	UGGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGAG	18758
10972	UGCACAAC C AGCCACAC	3451	GUGUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGCA	18759
10973	GCACAACC A GCCACACG	3452	CGUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGGC	18760
10976	CAACCAGC C ACACGGCA	3453	UGCCGUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUUG	18761
10977	AACCAGCC A CACGGCAC	3454	GUGCCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGUU	18762
10979	CCAGCCAC A CGGCACAG	3455	CUGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUGG	18763
10984	CACACGGC A CAGUGCGC	3456	CGCACUG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGUG	18764
10986	CACGCAC A GUGCGCCG	3457	CGGCGCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGUG	18765
10993	CAGUGCGC C GACAAUGG	3458	CCAUUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGCACUG	18766
10997	GCGCCGAC A AUGGUGGC	3459	GCCACCAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCGC	18767
11006	AUGGUGGC U GGUGUGGC	3460	GCACCACC CUGAUGAG	GCCGUUAGGC	CGAA ICCACCAU	18768
11021	GCGAGAAC A CAGGAUCU	3461	AGAUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGC	18769

Input Sequence = AF196835. Cut Site = CH/.

Arm Length = 8. Core Sequence = CUGAUGAG X CGAA (X = GCCGUUAGGC or other stem II)

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table V

Table V: WNV Zinzyne and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	Rz Seq ID
9	AGUAGUUC G CCUGUGUG	3462	CACACAGG GCCGAAAGGCGAGUGAGGUCU GAACUACU	18770
13	GUUGGCCU G UGUGAGCU	3463	AGCUCACA GCCGAAAGGCGAGUGAGGUCU AGCGGAAC	18771
15	UCGCCUGU G UGAGCUGA	3464	UCAGCUCU GCCGAAAGGCGAGUGAGGUCU ACAGGCGA	18772
19	CUGUGUGA G CUGACAAA	3465	UUUGUCAG GCCGAAAGGCGAGUGAGGUCU UCACACAG	18773
32	CAACCUUA G UAGUGUUU	3466	AAACACUA GCCGAAAGGCGAGUGAGGUCU UAAAGUUU	18774
35	ACUUAAGU G UGUUUGUG	3467	CACAAACA GCCGAAAGGCGAGUGAGGUCU UACUUAAGU	18775
37	UUAGUAGU G UUUGUGAG	3468	CUCACAAA GCCGAAAGGCGAGUGAGGUCU ACUACUAA	18776
41	UAGUGUUU G UGAGGAUU	3469	AAUCCUCA GCCGAAAGGCGAGUGAGGUCU AAACACUA	18777
66	UUAACACA G UGCAGCU	3470	AGCUCGCA GCCGAAAGGCGAGUGAGGUCU UGUGUUA	18778
68	AAACAGU G CGAGCUGU	3471	ACAGCUCG GCCGAAAGGCGAGUGAGGUCU ACUGUGUU	18779
72	CAGUGCGA G CUGUUUCU	3472	AGAAACAG GCCGAAAGGCGAGUGAGGUCU UCGCACUG	18780
75	UGCGAGCU G UUUCUUAG	3473	CUAAGAAA GCCGAAAGGCGAGUGAGGUCU AGCUCGCA	18781
83	GUUCUUA G CACGAAGA	3474	UCUUCUGG GCCGAAAGGCGAGUGAGGUCU UAAGAAAC	18782
99	AUCUCGAU G UCUAAGAA	3475	UUUUUAGA GCCGAAAGGCGAGUGAGGUCU AUCGAGAU	18783
117	CAGGAGG G CCGGGCAA	3476	UUGCCGGG GCCGAAAGGCGAGUGAGGUCU CCUCUUGG	18784
122	AGGCCCC G CAGAGCC	3477	GGCUCUUG GCCGAAAGGCGAGUGAGGUCU CGGGCCCU	18785
128	CGCAAGA G CCGGGCUG	3478	CAGCCCGG GCCGAAAGGCGAGUGAGGUCU UCUUGCCG	18786
133	AGAGCCGG G CUGUCAU	3479	AUUGACAG GCCGAAAGGCGAGUGAGGUCU CCGGCUCU	18787
136	GCGGGGU G UCAUAUUG	3480	CAUAUUGA GCCGAAAGGCGAGUGAGGUCU AGCCCGGC	18788
144	GUCAUAU G CUAAACG	3481	CGUUUUGG GCCGAAAGGCGAGUGAGGUCU AUUUUAGC	18789
152	GUUAAAC G CGAAUUGC	3482	GCAUUCGG GCCGAAAGGCGAGUGAGGUCU GUUUUAGC	18790
159	CAGGGAU G CCGCGCGU	3483	ACGCGGGG GCCGAAAGGCGAGUGAGGUCU AUUCGCGG	18791
164	AAUGCCCC G CGUGUUGU	3484	ACAACAG GCCGAAAGGCGAGUGAGGUCU GGGGCAUU	18792
166	UGCCCCGC G UGUUUGUC	3485	GGACAACA GCCGAAAGGCGAGUGAGGUCU GCGGGGCA	18793
168	CCCGCGCU G UUGUCCUU	3486	AAGGACAA GCCGAAAGGCGAGUGAGGUCU ACGCGGGG	18794
171	CGCGUGUU G UCCUUGAU	3487	AUCAAGGA GCCGAAAGGCGAGUGAGGUCU AACACGCG	18795
193	UGAAGAGG G CUUUGUUG	3488	CAACAUAG GCCGAAAGGCGAGUGAGGUCU CCUCUUCA	18796
198	AGGGCUAU G UUGAGCCU	3489	AGGCUCAA GCCGAAAGGCGAGUGAGGUCU AUAGCCCU	18797
203	UAUGUUGA G CCUGAUUG	3490	CGAUCAGG GCCGAAAGGCGAGUGAGGUCU UCAACAU	18798
215	GAUCGAGC G CAAGGGGC	3491	GCCCCUUG GCCGAAAGGCGAGUGAGGUCU CGUGGAUC	18799
222	GGCAAGGG G CCAUAACG	3492	CGUAUUGG GCCGAAAGGCGAGUGAGGUCU CCCUUGCC	18800
235	UACGAUUU G UGUUGGCU	3493	AGCCAACA GCCGAAAGGCGAGUGAGGUCU AAUUCGUA	18801
237	CGAUUUUU G UUGGCUUU	3494	AGAGCCAA GCCGAAAGGCGAGUGAGGUCU ACAAUUG	18802
241	UUGUGUUG G CUCUCUUG	3495	CAAGAGAG GCCGAAAGGCGAGUGAGGUCU CAACACAA	18803
250	CUCUCUUG G CGUUCUUC	3496	GAAGAACG GCCGAAAGGCGAGUGAGGUCU CAAGAGAG	18804
252	CUCUUGGC G UUCUUCAG	3497	CUGAAGAA GCCGAAAGGCGAGUGAGGUCU GCCAAGAG	18805

Table V

261	UUCUUCAG G UUCACAGC	3498	GCUGUGAA GCCGAAAGGCGAGUGAGGUCU CUGAAGAA	18806
268	GGUUCACA G CAAUUGCU	3499	AGCAAUTG GCCGAAAGGCGAGUGAGGUCU UGUGAACC	18807
274	CAGCAAUU G CUCCGACC	3500	GGUCGGAG GCCGAAAGGCGAGUGAGGUCU AAUUGCUG	18808
286	CGACCCGA G CAGUGCUG	3501	CAGCACUG GCCGAAAGGCGAGUGAGGUCU UCGGGUCG	18809
289	CCCGAGCA G UGUGGAU	3502	AUCCAGCA GCCGAAAGGCGAGUGAGGUCU UGCUCGGG	18810
291	CGAGCAGU G CUGGAUCG	3503	CGAUCACG GCCGAAAGGCGAGUGAGGUCU ACUGCUCG	18811
308	AUGGAGAG G UGUGAACCA	3504	UGUUCACA GCCGAAAGGCGAGUGAGGUCU CUCUCCAU	18812
310	GGAGAGGU G UGAACAAA	3505	UUUGUUCA GCCGAAAGGCGAGUGAGGUCU ACCUCUCC	18813
325	AACAAACA G CGAUGAAA	3506	UUUCAUCG GCCGAAAGGCGAGUGAGGUCU UGUUUUUU	18814
344	CUUUCUGA G UUUUAAGA	3507	UCUUAANA GCCGAAAGGCGAGUGAGGUCU UCAGAAGG	18815
374	CUUGACCA G UGCUAUCA	3508	UGAUAGCA GCCGAAAGGCGAGUGAGGUCU UGGUCAAG	18816
376	UGACCAGU G CUAUCAAU	3509	AUUGAUAG GCCGAAAGGCGAGUGAGGUCU ACUGGUCA	18817
387	AUCAUUC G CGAGGUCU	3510	GAGCUCUG GCCGAAAGGCGAGUGAGGUCU CGAUUGAU	18818
392	UCGGCGGA G CUCAAAAC	3511	GUUUUGAG GCCGAAAGGCGAGUGAGGUCU UCCGCCGA	18819
430	CGGGAUU G CAGUCAUG	3512	CAUGACUG GCCGAAAGGCGAGUGAGGUCU AAUCCGGG	18820
433	GAUUUGCA G UCAUGAUU	3513	AAUCAUGA GCCGAAAGGCGAGUGAGGUCU UGCAAUUC	18821
443	CAUGAUUG G CUUGAUCG	3514	CGAUCAGG GCCGAAAGGCGAGUGAGGUCU CAAUCAUG	18822
451	GCCUGAUC G CGAGGUA	3515	UACGCUUG GCCGAAAGGCGAGUGAGGUCU GAUCAGGC	18823
455	GAUCGCCA G CGUAGGAG	3516	CUCCUACG GCCGAAAGGCGAGUGAGGUCU UGGCGAUC	18824
457	UGCCAGC G UAGGAGCA	3517	UGCUCUUA GCCGAAAGGCGAGUGAGGUCU GCUGCGCA	18825
463	GGUAGGA G CAGUUACC	3518	GGUAAUCG GCCGAAAGGCGAGUGAGGUCU UCCUACGC	18826
466	UAGGAGCA G UAUCCUUC	3519	GAGGUUAA GCCGAAAGGCGAGUGAGGUCU UGUCCCUA	18827
493	AAGGGAAG G UGAUGAUG	3520	CAUCAUCA GCCGAAAGGCGAGUGAGGUCU CUUCCCUU	18828
505	UGAUGACG G UAAUUGCU	3521	AGCAUUAU GCCGAAAGGCGAGUGAGGUCU CGUCAUCA	18829
511	CGGUAAAU G CUACUGAC	3522	GUCAGUAG GCCGAAAGGCGAGUGAGGUCU AUUUAACG	18830
520	CUACUGAC G UCACAGAU	3523	AUTCUGUA GCCGAAAGGCGAGUGAGGUCU GUCAGUAG	18831
529	UCACAGAU G UCAUCACG	3524	CGUGAUGA GCCGAAAGGCGAGUGAGGUCU AUCUGUGA	18832
547	UUCCAACA G CUGCUGGA	3525	UCCAGCAG GCCGAAAGGCGAGUGAGGUCU UGUUGGAA	18833
550	CAACAGCU G CUGGAAAG	3526	CUTUCCAG GCCGAAAGGCGAGUGAGGUCU AGCUGUTG	18834
566	GAACCUAU G CAUUGUCA	3527	UGACAAUG GCCGAAAGGCGAGUGAGGUCU AUAGGUUC	18835
571	UAUGCAUU G UCAGAGCA	3528	UGCUCUGA GCCGAAAGGCGAGUGAGGUCU AAUGCAUA	18836
577	UUGUCAGA G CAAUGGAU	3529	AUCCAUUG GCCGAAAGGCGAGUGAGGUCU UUGACAAA	18837
586	CAAUGGAU G UGGGAUAC	3530	GUUCCCAU GCCGAAAGGCGAGUGAGGUCU AUCCAUTG	18838
597	GGAUACAU G UGCGAUGA	3531	UCAUCGCA GCCGAAAGGCGAGUGAGGUCU AUGUAUCC	18839
599	AUACAUGU G CGAUGAUA	3532	UAUCAUCG GCCGAAAGGCGAGUGAGGUCU ACAUGUAU	18840
623	UUUUGAAU G CCCAGUGC	3533	GCACUUGG GCCGAAAGGCGAGUGAGGUCU AUUCAUAA	18841
628	AAUGCCCA G UGCUUGCG	3534	CGACAGCA GCCGAAAGGCGAGUGAGGUCU UGGGCAUU	18842
630	UGCCACAGU G CUGUCGGC	3535	GCCGACAG GCCGAAAGGCGAGUGAGGUCU ACUGGGCA	18843
633	CCAGUGCU G UCUGGUGG	3536	CCAGCCGA GCCGAAAGGCGAGUGAGGUCU AGCACUGG	18844
637	UGCUGUGG G CUGGUAAU	3537	AUUACCAG GCCGAAAGGCGAGUGAGGUCU CGACAGCA	18845

Table V

641	GUCGGCUG G UAUUAUC	3538	GAUCAUUA GCCGAAAGCGAGUGAGGUCU CAGCCGAC	18846
665	CAUCGACU G UUGGUGCA	3539	UGCACCAA GCCGAAAGCGAGUGAGGUCU AGUCGAUG	18847
669	GACUGUUG G UGCACAAA	3540	UUUGUGCA GCCGAAAGCGAGUGAGGUCU CAACAGUC	18848
671	CUGUUGGU G CACAAAGU	3541	ACUUUGUG GCCGAAAGCGAGUGAGGUCU ACCAACAG	18849
678	UGCACAAA G UCAGCAGU	3542	ACUGCUGA GCCGAAAGCGAGUGAGGUCU UUUGUGCA	18850
682	CAAAGUCA G CAGUCUAC	3543	GUAGACUG GCCGAAAGCGAGUGAGGUCU UGACUUUG	18851
685	AGUCAGCA G UCUACGUC	3544	GACGUAGA GCCGAAAGCGAGUGAGGUCU UGCUGACU	18852
691	CAGUCUAC G UCAGGUAU	3545	AUACCUCA GCCGAAAGCGAGUGAGGUCU GUAGACTUG	18853
696	UACGUCAG G UAUUGAAG	3546	CUUCCAUA GCCGAAAGCGAGUGAGGUCU CUGACGUA	18854
707	UGGAAGAU G CACCAAGA	3547	UCUUGGUG GCCGAAAGCGAGUGAGGUCU AUCUCCA	18855
719	CAAGACAC G CCACUCAA	3548	UUGAGUGG GCCGAAAGCGAGUGAGGUCU GUGUCUUG	18856
731	CUCAAGAC G CAGUCGGA	3549	UCCGACUG GCCGAAAGCGAGUGAGGUCU GUCUUGAG	18857
734	AAGACGCA G UCGGAGGU	3550	ACCUCCGA GCCGAAAGCGAGUGAGGUCU UGCUGUCU	18858
741	AGUCGGAG G UCACUGAC	3551	GUCAGUGA GCCGAAAGCGAGUGAGGUCU CUCCGACU	18859
751	CACUGACA G UGCAGACA	3552	UGUCUGCA GCCGAAAGCGAGUGAGGUCU UGUCAGUG	18860
753	CUGACAGU G CAGACACA	3553	UGUGUCUG GCCGAAAGCGAGUGAGGUCU ACUGUCAG	18861
770	CGGAGAAA G CACUCUAG	3554	CUAGAGUG GCCGAAAGCGAGUGAGGUCU UUUCUCCG	18862
778	GCACUCUA G CGAACCAAG	3555	CUUGUUCG GCCGAAAGCGAGUGAGGUCU UAGAGUGC	18863
793	AGAAGGGG G CUUGGAUG	3556	CAUCCAAG GCCGAAAGCGAGUGAGGUCU CCCCUCU	18864
806	GAUGAGCA G CACCAAGG	3557	CCUUGUG GCCGAAAGCGAGUGAGGUCU UGUCCAUC	18865
814	GCACCAAG G CCACACAG	3558	CUUUGUG GCCGAAAGCGAGUGAGGUCU CUUUGGUC	18866
822	GCCACAAG G UAUUUGGU	3559	ACCAAUA GCCGAAAGCGAGUGAGGUCU CUUGUGGC	18867
829	GGUAUUUG G UAAAAACA	3560	UGUUUUUA GCCGAAAGCGAGUGAGGUCU CAAAUACC	18868
868	CUGGAUUA G CCCUGGUG	3561	CACCAGGG GCCGAAAGCGAGUGAGGUCU AUAUCCAG	18869
874	AUGCCUG G UGGCAGCC	3562	GGCUGCCA GCCGAAAGCGAGUGAGGUCU CAGGGCAU	18870
877	CCCUGGUG G CAGCCGUC	3563	GACGGCUG GCCGAAAGCGAGUGAGGUCU CACCAGGG	18871
880	UGGUGGCA G CCGUCAUU	3564	AAUGACGG GCCGAAAGCGAGUGAGGUCU UGCCACCA	18872
883	UGGCAGCC G UCAUUGGU	3565	ACCAAUGA GCCGAAAGCGAGUGAGGUCU GGCUGCCA	18873
890	CGUCAUUG G UUGGAUUG	3566	GCAUCCAA GCCGAAAGCGAGUGAGGUCU CAAUGACG	18874
897	GGUUGGAU G CUUGGGAG	3567	CUCCCAAG GCCGAAAGCGAGUGAGGUCU AUCCAACC	18875
905	GCUUGGGA G CAACACCA	3568	UGUGUUG GCCGAAAGCGAGUGAGGUCU UCCCAAGC	18876
915	AACACCAU G CAGAGAGU	3569	ACUCUCUG GCCGAAAGCGAGUGAGGUCU AUGGUGUU	18877
922	UGCAGAGA G UUGUUGUU	3570	AAACACAA GCCGAAAGCGAGUGAGGUCU UCUCUGCA	18878
925	AGAGAGUU G UGUUUGUC	3571	GACAAACA GCCGAAAGCGAGUGAGGUCU AACUCUCU	18879
927	AGAGUUGU G UUUGUCGU	3572	ACGACAAA GCCGAAAGCGAGUGAGGUCU ACAACUCU	18880
931	UUGUUGUU G UGUGUCUA	3573	UAGCACGA GCCGAAAGCGAGUGAGGUCU AAACACAA	18881
934	UUUGUUGU G UGUUAUUG	3574	CAAUAGCA GCCGAAAGCGAGUGAGGUCU GACAAACA	18882
936	UUUGUCGU G CUUAUUGU	3575	AGCAAUAG GCCGAAAGCGAGUGAGGUCU ACGACAAA	18883
942	GUUCUAUU G CUUUUGGU	3576	ACCAAAAG GCCGAAAGCGAGUGAGGUCU AAUAGCAC	18884
949	UGCUUUUG G UGCCCCCA	3577	UGGGGCCA GCCGAAAGCGAGUGAGGUCU CAAAAGCA	18885

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952	UUUUGUG G CCCAGCU	3578	AGCUGGG GCCGAAAGGCGAGUGAGGUCU CACCAAAA	18886
958	UGGCCCA G CUUACAGC	3579	GCUGUAG GCCGAAAGGCGAGUGAGGUCU UGGGGCCA	18887
965	AGCUACA G CUUCAUC	3580	AGUUGAG GCCGAAAGGCGAGUGAGGUCU UGUUAGCU	18888
974	CUUCAUC G CUUGGAA	3581	UUCCAAG GCCGAAAGGCGAGUGAGGUCU AGUUGAAG	18889
986	UGGAUGA G CAACAGAG	3582	CUCUGUG GCCGAAAGGCGAGUGAGGUCU UCAUUCUA	18890
1009	UGGAAGG G UGUCUGGA	3583	UCCAGACA GCCGAAAGGCGAGUGAGGUCU UCCUUCUA	18891
1011	GAAGAGU G UCUGGAGC	3584	GCUCAGA GCCGAAAGGCGAGUGAGGUCU ACUCCUUC	18892
1018	UGUCUGG G CAACAUGG	3585	CCAUGUG GCCGAAAGGCGAGUGAGGUCU UCCAGACA	18893
1027	CAACAUG G UGGAUUUG	3586	CAAUCCA GCCGAAAGGCGAGUGAGGUCU CCAUGUUG	18894
1036	UGGAUUU G UUCUGAA	3587	UUCGAGAA GCCGAAAGGCGAGUGAGGUCU CAAAUCCA	18895
1046	UCUCGAG G CGACAGCU	3588	AGCUGUC GCCGAAAGGCGAGUGAGGUCU CUUCGAGA	18896
1052	AGGCGACA G CUGCGUGA	3589	UCACGAG GCCGAAAGGCGAGUGAGGUCU UGUCGCCU	18897
1055	CGACAGU G CUGACTUA	3590	UAGUCAG GCCGAAAGGCGAGUGAGGUCU AGCUGUCG	18898
1057	ACAGTUG G UGACUAUC	3591	GAUAGUA GCCGAAAGGCGAGUGAGGUCU GCAGTUGU	18899
1068	ACUAUCA G UCUAAGGA	3592	UCCUAGA GCCGAAAGGCGAGUGAGGUCU AUGAUAGU	18900
1080	AAGGACAA G CCUACCAU	3593	AUGUAGG GCCGAAAGGCGAGUGAGGUCU UUGUCCUU	18901
1093	CCAUCGAU G UGAAGAUG	3594	CAUCUUA GCCGAAAGGCGAGUGAGGUCU AUCGAUGG	18902
1114	AUAUGAG G CGGUCAAC	3595	GUUACCG GCCGAAAGGCGAGUGAGGUCU CUCCAUAU	18903
1117	UGGAGCG G UCAACCTUG	3596	CAGGUUA GCCGAAAGGCGAGUGAGGUCU CGCCUCCA	18904
1126	UCAACCTG G CAGAGGUC	3597	GACCTUG GCCGAAAGGCGAGUGAGGUCU CAGGUUGA	18905
1132	UGGCAGAG G UCCGCAGU	3598	ACUGCGA GCCGAAAGGCGAGUGAGGUCU CUCUGCCA	18906
1136	AGAGGUCC G CAGUUUAU	3599	AUAACUG GCCGAAAGGCGAGUGAGGUCU GGACCTUCU	18907
1139	GGUCCGCA G UUAUUGCU	3600	AGCAUUA GCCGAAAGGCGAGUGAGGUCU UGCGGACC	18908
1145	CAGUUAU G CUAUUGG	3601	CCAAUAG GCCGAAAGGCGAGUGAGGUCU AAUAACUG	18909
1153	GCUAUUUG G CUACCGUC	3602	GACGUAG GCCGAAAGGCGAGUGAGGUCU CAAAUAGC	18910
1159	UGGCUACC G UCAGCGAU	3603	AUCGUGA GCCGAAAGGCGAGUGAGGUCU GGUAGCCA	18911
1163	UACCGUA G CGAUCUCU	3604	AGAGUUC GCCGAAAGGCGAGUGAGGUCU UGACGGUA	18912
1180	CCACCAA G CUGCGUGC	3605	GCACGAG GCCGAAAGGCGAGUGAGGUCU UUUUGUGG	18913
1183	CCAAAGCU G CGUGCCCG	3606	CGGCACG GCCGAAAGGCGAGUGAGGUCU AGCUTUUG	18914
1185	AAAGTUG G UGCCCGAC	3607	GUCGGCA GCCGAAAGGCGAGUGAGGUCU GCAGCTUU	18915
1187	AGUGCGU G CCGACCA	3608	UGGUGGG GCCGAAAGGCGAGUGAGGUCU ACGCAGCU	18916
1204	UGGAGAA G CUCACNAU	3609	AUTUGAG GCCGAAAGGCGAGUGAGGUCU UUCUCCCA	18917
1220	UGACAAC G UGUCAGCC	3610	GGUCAGCA GCCGAAAGGCGAGUGAGGUCU GUUUGUCA	18918
1222	ACAAACGU G CUGACCCA	3611	UGGUGCAG GCCGAAAGGCGAGUGAGGUCU ACGUUUGU	18919
1231	CUGACCCA G CUUUUGUG	3612	CACAAAG GCCGAAAGGCGAGUGAGGUCU UGGGUCAG	18920
1237	CAGUUUU G UGUGCAGA	3613	UCUGCACA GCCGAAAGGCGAGUGAGGUCU AAAAGCTG	18921
1239	GCUUUGU G UGCAGACA	3614	UGUCUGCA GCCGAAAGGCGAGUGAGGUCU ACAAAGC	18922
1241	UUUUUGU G CAGACAAG	3615	CUUGUCUG GCCGAAAGGCGAGUGAGGUCU ACACAAAA	18923
1252	GACAAGGA G UGGUGGAC	3616	GUCCACCA GCCGAAAGGCGAGUGAGGUCU UCCUUGUC	18924
1255	AAGGAGU G UGGACAGG	3617	CCUGUCCA GCCGAAAGGCGAGUGAGGUCU CACUCCUU	18925

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1265	GGACAGG G CUGGGCA	3618	UGCCCCAG GCCAAAGGCGAGUGAGGUCU CCCUGUCC	18926
1271	GGGUGGG G CAAGGGU	3619	AGCCGUUG GCCAAAGGCGAGUGAGGUCU CCCAGCCC	18927
1277	GGCAACG G CUGGGU	3620	AUCGCGAG GCCAAAGGCGAGUGAGGUCU CGUUGCCC	18928
1280	CAACGGCU G CGAUUUA	3621	AUAUUCG GCCAAAGGCGAGUGAGGUCU AGCCGUUG	18929
1292	AUUAUUG G CAAAGGAA	3622	UUCUUUG GCCAAAGGCGAGUGAGGUCU CAAAUAAU	18930
1301	CAAAGGAA G CAUUGACA	3623	UGUCAUG GCCAAAGGCGAGUGAGGUCU UUCUUUUG	18931
1313	UGACACAU G CGCAAAU	3624	AUUUGCG GCCAAAGGCGAGUGAGGUCU AUGUGUCA	18932
1315	ACACAUG G CCAAUUU	3625	AAAUUUG GCCAAAGGCGAGUGAGGUCU GCAUGUGU	18933
1324	CCAAUUU G CCUGUCU	3626	AGAGCAG GCCAAAGGCGAGUGAGGUCU AAUUTUGG	18934
1328	AUUUGCU G CUCUACCA	3627	UGGUAGAG GCCAAAGGCGAGUGAGGUCU AGGCAAAU	18935
1339	CUACCAAG G CAUUGGA	3628	UCCUAUUG GCCAAAGGCGAGUGAGGUCU CUUGGUAG	18936
1374	AAUAUCAA G UAGGAU	3629	ACUUCGUA GCCAAAGGCGAGUGAGGUCU UUGAUUUU	18937
1381	AGUACGAA G UGCCAUU	3630	AAUGGCA GCCAAAGGCGAGUGAGGUCU UUCGUACU	18938
1384	ACGAAGUG G CCAUUUUU	3631	AAAAUUG GCCAAAGGCGAGUGAGGUCU CACUUCGU	18939
1393	CCAUUUU G UCCAUGGA	3632	UCCAUGGA GCCAAAGGCGAGUGAGGUCU AAAAUUGG	18940
1411	CAACUACU G UGGAGUCG	3633	CGACUCCA GCCAAAGGCGAGUGAGGUCU AGUAGUUG	18941
1416	ACUGUGGA G UGCACGG	3634	CCGUGGA GCCAAAGGCGAGUGAGGUCU UCCACAGU	18942
1419	GUGGAGUC G CACGGAAA	3635	UUUCCUG GCCAAAGGCGAGUGAGGUCU GACUCCAC	18943
1441	CCACAGG G UGGAGCC	3636	GGUCCAA GCCAAAGGCGAGUGAGGUCU CUGUGUUG	18944
1447	AGUUGAC G CCACUCAG	3637	CUGAGUG GCCAAAGGCGAGUGAGGUCU UCCAACCU	18945
1456	CCACUCAG G CAGGGAGA	3638	UUCUCCUG GCCAAAGGCGAGUGAGGUCU CUGAGUGG	18946
1469	GAGAUAUA G CAUCACUC	3639	GAGUGAUG GCCAAAGGCGAGUGAGGUCU UGAAUCUC	18947
1480	UCACUCCU G CGCGCCU	3640	AGGCGCG GCCAAAGGCGAGUGAGGUCU AGGAGUGA	18948
1483	CUCCUGG G CGCCUUA	3641	UGAAGCG GCCAAAGGCGAGUGAGGUCU CGCAGGAG	18949
1485	CCUGCGG G CCUUAUA	3642	UAUGAAG GCCAAAGGCGAGUGAGGUCU GCCGCAGG	18950
1503	ACACUAAA G CUUGGAGA	3643	UCUCCAAG GCCAAAGGCGAGUGAGGUCU UUAUAGUG	18951
1522	AUGGAGAG G UGACAGUG	3644	CACUGUA GCCAAAGGCGAGUGAGGUCU CUCUCCAU	18952
1528	AGGUGACA G UGACUGU	3645	ACAGUCCA GCCAAAGGCGAGUGAGGUCU UGUACACU	18953
1535	AGUGGACU G UGAACCA	3646	GUGGUUA GCCAAAGGCGAGUGAGGUCU AGUCCACU	18954
1545	GAACCAAG G UCAGGGAU	3647	AUCCUGA GCCAAAGGCGAGUGAGGUCU CGUGGUUC	18955
1564	ACACCAAU G CAUACUAC	3648	GUAGUAUG GCCAAAGGCGAGUGAGGUCU AUUGGUGU	18956
1573	CAUACUAC G UGAUGAU	3649	AGUCAUA GCCAAAGGCGAGUGAGGUCU GUAGUAUG	18957
1582	UGAUGACU G UUGGAACA	3650	UGUUCUA GCCAAAGGCGAGUGAGGUCU AGUCAUA	18958
1596	ACAAAGAC G UUCUUGU	3651	ACCAAGAA GCCAAAGGCGAGUGAGGUCU GUCUUUGU	18959
1603	CGUUCUUG G UCCAUCCU	3652	ACGAUGGA GCCAAAGGCGAGUGAGGUCU CAAAGAACG	18960
1610	GGUCCUAG G UGUUGGU	3653	ACCACUA GCCAAAGGCGAGUGAGGUCU AUGGACC	18961
1614	CAUCUGUA G UGUUUAU	3654	AUGAACCA GCCAAAGGCGAGUGAGGUCU UACAGAU	18962
1617	CGUGAGUG G UUCAUGA	3655	UCCAUGAA GCCAAAGGCGAGUGAGGUCU CACUACG	18963
1643	CCUUGGA G CAGUGCUG	3656	CAGCACUG GCCAAAGGCGAGUGAGGUCU UCCAAGGG	18964
1646	UUGGAGCA G UGUGGAA	3657	UUCACGA GCCAAAGGCGAGUGAGGUCU UGCUCCAA	18965

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1648	GGAGCAGU G CUGGAAGU	3658	ACUUCAG GCCGAAAGCGAGUGAGGUCU ACUGCUCC	18966
1655	UGCUGGAA G UACUGUGU	3659	ACACAGU GCCGAAAGCGAGUGAGGUCU UUCACGCA	18967
1660	GAAGUACU G UGUGGAGG	3660	CCUCCACA GCCGAAAGCGAGUGAGGUCU AGUACUUC	18968
1662	AGUACUGU G UGGAGGAA	3661	UUCUCUCA GCCGAAAGCGAGUGAGGUCU ACAGUACU	18969
1680	AGAGAGAC G UUAUUGA	3662	UCCAUUAA GCCGAAAGCGAGUGAGGUCU GUCUCUCU	18970
1689	UUAUUGA G UUUGAGGA	3663	UCCUCAAA GCCGAAAGCGAGUGAGGUCU UCCAUUAA	18971
1705	AACCACAC G CCACGAAG	3664	CUUCGUGG GCCGAAAGCGAGUGAGGUCU GUGUGGUU	18972
1713	GCCACGAA G CAGUCUGU	3665	ACAGACUG GCCGAAAGCGAGUGAGGUCU UUCGUGGC	18973
1716	ACGAAGCA G UCUGUGAU	3666	AUCACAGA GCCGAAAGCGAGUGAGGUCU UGCUCUGU	18974
1720	AGCAGUCU G UGAUAGCA	3667	UGCUAUCA GCCGAAAGCGAGUGAGGUCU AGACUCGU	18975
1726	CUGUGAUA G CAUUGGCG	3668	GCCCAAUG GCCGAAAGCGAGUGAGGUCU UAUCACAG	18976
1733	AGCAUUGG G CUCACACG	3669	CUUGUGAG GCCGAAAGCGAGUGAGGUCU CCAUUGCU	18977
1747	AAGAGGGA G CUCUGCAU	3670	AUGCAGAG GCCGAAAGCGAGUGAGGUCU UCCUCUUU	18978
1752	GGAGCUCU G CAUCAAGC	3671	GCUUGAUG GCCGAAAGCGAGUGAGGUCU AGAGCUCC	18979
1759	UGCAUCAA G CUUUGGCU	3672	AGCCAAAG GCCGAAAGCGAGUGAGGUCU UUGAUGCA	18980
1765	AAGCUUUG G CUGGAGCC	3673	GGCUCCAG GCCGAAAGCGAGUGAGGUCU CAAAGCUU	18981
1771	UGGCUUGA G CCAUUCUU	3674	AGGAUUGG GCCGAAAGCGAGUGAGGUCU UCCAGCCA	18982
1780	CCAUUCUU G UGGAUUTU	3675	AAAUUCCA GCCGAAAGCGAGUGAGGUCU AGGAUUGG	18983
1793	AUUUUCAA G CAACACUG	3676	CAGUGUUG GCCGAAAGCGAGUGAGGUCU UUGAAAUU	18984
1801	GAACACU G UCAAGUUG	3677	CAACUUGA GCCGAAAGCGAGUGAGGUCU AGUGUUGC	18985
1806	ACUGUCAA G UGACGUC	3678	GACGUCAA GCCGAAAGCGAGUGAGGUCU UUGACAGU	18986
1812	AAGUUGAC G UCGGUGUA	3679	UGACCCGA GCCGAAAGCGAGUGAGGUCU GUCACACU	18987
1817	GACGUCGG G UCAUUGA	3680	UCAAUUGA GCCGAAAGCGAGUGAGGUCU CCGACGUC	18988
1827	CAUUGGAA G UGUAGAGU	3681	ACUCUACA GCCGAAAGCGAGUGAGGUCU UUCAAUUG	18989
1829	UUUGAAGU G UAGAGUGA	3682	UCACUCUA GCCGAAAGCGAGUGAGGUCU ACUUCAAA	18990
1834	AGUGUAGA G UGAAGAUG	3683	CAUCUUCA GCCGAAAGCGAGUGAGGUCU UCUACACU	18991
1851	GAUAAAU G CAGUUGAA	3684	UUCACUG GCCGAAAGCGAGUGAGGUCU AAUUTUUC	18992
1854	AAAUUGCA G UUGAAGGG	3685	CCUUCAAA GCCGAAAGCGAGUGAGGUCU UGCAAUUU	18993
1874	AACCUAUG G CGUCUGUU	3686	AACAGAGG GCCGAAAGCGAGUGAGGUCU CAUAGGUU	18994
1876	CCUAUGGC G UCUGUUA	3687	UGAACAGA GCCGAAAGCGAGUGAGGUCU GCCAUAGG	18995
1880	UGGCGUCU G UUCAAAGG	3688	CCUUGAAA GCCGAAAGCGAGUGAGGUCU AGACGCCA	18996
1888	GUUCAAG G CUUUCAG	3689	CUUGAAAG GCCGAAAGCGAGUGAGGUCU CUUUGAAC	18997
1896	GCUUUCAA G UUUCUUGG	3690	CCAAGAAA GCCGAAAGCGAGUGAGGUCU UUGAAAGC	18998
1912	GGACUCCC G CAGACACA	3691	UGUGUCUG GCCGAAAGCGAGUGAGGUCU GGGAGUCC	18999
1922	AGACACAG G UCACGGCA	3692	UGCCGUGA GCCGAAAGCGAGUGAGGUCU CUGUGUCU	19000
1928	AGGUCACG G CACUGUGG	3693	CCACAGUG GCCGAAAGCGAGUGAGGUCU CGUGACCU	19001
1933	ACGGCACU G UGUGUUGA	3694	CAACACCA GCCGAAAGCGAGUGAGGUCU AGUGCCGU	19002
1936	GCACUGUG G UGUUGGAA	3695	UUCCAAAC GCCGAAAGCGAGUGAGGUCU CACAGUGC	19003
1938	ACUGUGGU G UUGGAUUU	3696	AAUUCCAA GCCGAAAGCGAGUGAGGUCU ACCACAGU	19004
1947	UUGGAUUU G CAGUACAC	3697	GUGUACUG GCCGAAAGCGAGUGAGGUCU AAUUCCAA	19005

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1950	GAUUGCA G UACACUGG	3698	CCAGUGUA GCCGAAAGGCGAGUGAGGUCU UGCAAUUC	19006
1958	GUACACUG G CACGGAUG	3699	CAUCCUG GCCGAAAGGCGAGUGAGGUCU CAGUGUAC	19007
1973	UGGACCUU G CAAAGUUC	3700	GAACUUUG GCCGAAAGGCGAGUGAGGUCU AAGGUCCA	19008
1978	CUUGCAA G UUCUUAUC	3701	GAUAGGAA GCCGAAAGGCGAGUGAGGUCU UUUACAAG	19009
1989	CCUAUCU G UCAGUGGC	3702	GCCACUGA GCCGAAAGGCGAGUGAGGUCU GAGAUAAG	19010
1993	UCUCGUCA G UGGCUUCA	3703	UGAAGCCA GCCGAAAGGCGAGUGAGGUCU UGACGAGA	19011
1996	CGUCAGUG G CUUCAUUG	3704	CAUAGAAG GCCGAAAGGCGAGUGAGGUCU CACUGACG	19012
2016	GACCUAC G CCAGUGGG	3705	CCCACUGG GCCGAAAGGCGAGUGAGGUCU GUUAGGUC	19013
2020	UAACGCCA G UGGGCAGA	3706	UCUGCCCA GCCGAAAGGCGAGUGAGGUCU UGGCGUUA	19014
2024	GCCAGUGG G CAGAUUGG	3707	CCAUCUG GCCGAAAGGCGAGUGAGGUCU CCACUGGC	19015
2032	GCAGAUUG G UCACUGUC	3708	GACAGUGA GCCGAAAGGCGAGUGAGGUCU CAAUCUGC	19016
2038	UGGUACAU G UCAACCCU	3709	AGGUUUGA GCCGAAAGGCGAGUGAGGUCU AGUACCCA	19017
2050	ACCCUUU G UUCACUG	3710	CACUGAAA GCCGAAAGGCGAGUGAGGUCU AAAAGGCU	19018
2056	UUGUUCA G UGGCCACG	3711	CGUGGCCA GCCGAAAGGCGAGUGAGGUCU UGAAACAA	19019
2059	UUUCAGUG G CCACGGCC	3712	GGCCUGGG GCCGAAAGGCGAGUGAGGUCU CACUGAAA	19020
2065	UGGCCACG G CCAACGCU	3713	AGGUUUG GCCGAAAGGCGAGUGAGGUCU CGUGGCCA	19021
2071	CGGCCAAC G CUAGGUC	3714	GACCUUAG GCCGAAAGGCGAGUGAGGUCU GUUGGCCG	19022
2077	ACGCUAAG G UCCUGAUU	3715	AAUCAGGA GCCGAAAGGCGAGUGAGGUCU CUUAGCGU	19023
2119	CAUACAUA G UGGUGGCG	3716	GCCACCCA GCCGAAAGGCGAGUGAGGUCU UAUUAUUG	19024
2122	ACAUAGUG G UGGGCAGA	3717	UCUGCCCA GCCGAAAGGCGAGUGAGGUCU CACUAUGU	19025
2126	AGUGGUGG G CAGAGGAG	3718	CUCCUUG GCCGAAAGGCGAGUGAGGUCU CCACCACU	19026
2157	CACCAUUG G CACAAGUC	3719	GACUUGUG GCCGAAAGGCGAGUGAGGUCU CAAUGGUG	19027
2163	UGGCACAA G UCUGGAAG	3720	CUUCCAGA GCCGAAAGGCGAGUGAGGUCU UUGUGCCA	19028
2171	GUCUGGAA G CAGCAUUG	3721	CAUUGCUG GCCGAAAGGCGAGUGAGGUCU UUCCAGAC	19029
2174	UGGAAGCA G CAUUGGCA	3722	UGCCAAUG GCCGAAAGGCGAGUGAGGUCU UGCUUCCA	19030
2180	CAGCAUUG G CAAAGCCU	3723	AGGUUUG GCCGAAAGGCGAGUGAGGUCU CAAUGCUG	19031
2185	UUGGCAAA G CCUUAACA	3724	UGUAAAGG GCCGAAAGGCGAGUGAGGUCU UUGGCCAA	19032
2209	UCAAGGA G CGCAGAGA	3725	UCUCUGCG GCCGAAAGGCGAGUGAGGUCU UCCUUUGA	19033
2211	AAAGGAGC G CAGAGACU	3726	AGUCUCUG GCCGAAAGGCGAGUGAGGUCU GCUCUUU	19034
2221	AGAGACUA G CCGCUUA	3727	UAGAGCGG GCCGAAAGGCGAGUGAGGUCU UAGUCUCU	19035
2224	GACUAGCC G CUCUAGGA	3728	UCCUAGAG GCCGAAAGGCGAGUGAGGUCU GGUUAGUC	19036
2239	GAGACACA G CUUGGGAC	3729	GUCCCAAG GCCGAAAGGCGAGUGAGGUCU UGUUGUCU	19037
2257	UUGGAUCA G UUGGAGGG	3730	CCUCCCAA GCCGAAAGGCGAGUGAGGUCU UGAUCCAA	19038
2266	UUGGAGGG G UGUUACCC	3731	GGUGAACA GCCGAAAGGCGAGUGAGGUCU CCUCCCAA	19039
2268	GGAGGGGU G UUCACUUC	3732	GAGGUGAA GCCGAAAGGCGAGUGAGGUCU ACCCCUCC	19040
2278	UCACCUCA G UUGGGAAG	3733	CUUCCCAA GCCGAAAGGCGAGUGAGGUCU UGAGGUGA	19041
2287	UUGGGAAG G CUGUCCAU	3734	AUGGACAG GCCGAAAGGCGAGUGAGGUCU CUUCCCAA	19042
2290	GGAAGGCU G UCCAUCAA	3735	UUGAUGGA GCCGAAAGGCGAGUGAGGUCU AGCCUCC	19043
2299	UCCAUCAA G UGUUCGGA	3736	UCCGAACA GCCGAAAGGCGAGUGAGGUCU UUGAUGGA	19044
2301	CAUCAAGU G UUCGGAGG	3737	CCUCCGAA GCCGAAAGGCGAGUGAGGUCU ACUUGAUG	19045

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2311	UCGGAGGA G CAUUCGCG	3738	GCGAAUG GCGAAAGGCGAGUGAGGUCU UCCUCCGA	19046
2318	AGCAUCC G CUCACUGU	3739	ACAGUGAG GCCGAAAGGCGAGUGAGGUCU GGAUUGCU	19047
2325	CGUCACU G UUCGGAGG	3740	CCUCCGAA GCCGAAAGGCGAGUGAGGUCU AGUGAGCG	19048
2333	GUUCGGAG G CAUUGCCU	3741	AGGACAUG GCCGAAAGGCGAGUGAGGUCU CUCGGAAC	19049
2337	GGAGGCAU G UCCUGGAU	3742	AUCCAGGA GCCGAAAGGCGAGUGAGGUCU AUGCCUCC	19050
2349	UGGAUAAC G CAGGGAUU	3743	AAUCCUUG GCCGAAAGGCGAGUGAGGUCU GUUAUCCA	19051
2358	CAGGAUU G UGGGGGCG	3744	GGCCCCAG GCCGAAAGGCGAGUGAGGUCU AAUCCUUG	19052
2365	UGCUGGG G CUCUCCUG	3745	CAGGAGAG GCCGAAAGGCGAGUGAGGUCU CCCCAGCA	19053
2373	GCUCUCCU G UUGUGGAU	3746	AUCCACAA GCCGAAAGGCGAGUGAGGUCU AGGAGAGC	19054
2376	CUCUUGUU G UGGAUGGG	3747	CCCAUCCA GCCGAAAGGCGAGUGAGGUCU AACAGGAG	19055
2384	GUGGAUGG G CAUCAUUG	3748	CAUUGAUG GCCGAAAGGCGAGUGAGGUCU CCAUCCAC	19056
2392	GCAUCAU G CUGUGAU	3749	AUCCAGAG GCCGAAAGGCGAGUGAGGUCU AUUGAUGC	19057
2396	CAUUGCUC G UGAUAGGU	3750	ACCUAUC A GCCGAAAGGCGAGUGAGGUCU GAGCAUUG	19058
2403	CGUGAUAG G UCCAUAGC	3751	GCUAUGGA GCCGAAAGGCGAGUGAGGUCU CUAUCACG	19059
2410	GGUCCAUA G CUCUCACG	3752	CGUGAGAG GCCGAAAGGCGAGUGAGGUCU UAUGGACC	19060
2418	GCUCUCAC G UUUUCGCG	3753	GGGAGAAA GCCGAAAGGCGAGUGAGGUCU GUGAGAGC	19061
2425	CGUUCUC G CAGUUGGA	3754	UCCAACUG GCCGAAAGGCGAGUGAGGUCU GAGAAACG	19062
2428	UUCUCGCA G UUGGAGGA	3755	UCCUCCAA GCCGAAAGGCGAGUGAGGUCU UGCGAGAA	19063
2437	UUGGAGGA G UUCUGCUC	3756	GAGCAGAA GCCGAAAGGCGAGUGAGGUCU UCCUCCAA	19064
2442	GGAGUUCU G CUCUUCUU	3757	AGGAAGAG GCCGAAAGGCGAGUGAGGUCU AGAACUCC	19065
2455	UCCUCUCC G UGAACGUG	3758	CACGUUCA GCCGAAAGGCGAGUGAGGUCU GGAGAGGA	19066
2461	CGUGAAC G UGCACGCU	3759	AGCGUGCA GCCGAAAGGCGAGUGAGGUCU GUUCACGG	19067
2463	GUGAACGU G CAGCGUGA	3760	UCAGCGUG GCCGAAAGGCGAGUGAGGUCU ACGUUCAC	19068
2467	AGUGCAC G CUGACACU	3761	AGUGUCAG GCCGAAAGGCGAGUGAGGUCU GUGCACGU	19069
2478	GACACUGG G UGUGCCAU	3762	AUGGCACA GCCGAAAGGCGAGUGAGGUCU CCAGUGUC	19070
2480	CACUGGGU G UGCCAUAG	3763	CUAUGCA GCCGAAAGGCGAGUGAGGUCU ACCCAGUG	19071
2482	CUGGGUGU G CCAUAGAC	3764	GUUUAUGG GCCGAAAGGCGAGUGAGGUCU ACACCCAG	19072
2495	AGACAUA G CCGGCAAG	3765	CUUGCCGG GCCGAAAGGCGAGUGAGGUCU UGAUUGCU	19073
2499	AUCAGCCG G CAAGAGCU	3766	AGUCUUG GCCGAAAGGCGAGUGAGGUCU CGGCTUGAU	19074
2505	CGGCAAGA G CUGAGAUG	3767	CAUCUCAG GCCGAAAGGCGAGUGAGGUCU UCUUGCCG	19075
2513	GCUGAGAU G UGGAAGUG	3768	CACUCCA GCCGAAAGGCGAGUGAGGUCU AUCUCAGC	19076
2519	AUGUGAA G UGGAGUGU	3769	ACACUCCA GCCGAAAGGCGAGUGAGGUCU UGCCACAU	19077
2524	GAUGGGA G UGUUCAUA	3770	UAUGAACA GCCGAAAGGCGAGUGAGGUCU UCCACUUC	19078
2526	AGUGGAGU G UUCAUACA	3771	UGUAUGAA GCCGAAAGGCGAGUGAGGUCU ACUCCACU	19079
2542	ACAAUGAU G UGGAGGCU	3772	AGCCUCCA GCCGAAAGGCGAGUGAGGUCU AUCAUUGU	19080
2548	AUGUGAG G CUUGGAUG	3773	CAUCCAAG GCCGAAAGGCGAGUGAGGUCU CUCCACAU	19081
2562	AUGGACCG G UACAAGUA	3774	UACUUGUA GCCGAAAGGCGAGUGAGGUCU CGGUCCAU	19082
2568	CGGUACAA G UAUUACCC	3775	GGGUAUA GCCGAAAGGCGAGUGAGGUCU UUGUACCG	19083
2583	CCUGAAAC G CCACAAGG	3776	CCUUGUGG GCCGAAAGGCGAGUGAGGUCU GUUUCAGG	19084
2591	GCCACAAG G CCUAGCCA	3777	UGGCUVAG GCCGAAAGGCGAGUGAGGUCU CUUGUGGC	19085

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2596	AAGCCUA G CCAAGAU	3778	GAUCUUG GCCGAAAGGCGAGUGAGGUCU UAGGCCU	19086
2614	UUCAGAA G CUCAUAG	3779	CUUAUGAG GCCGAAAGGCGAGUGAGGUCU UUCUGAA	19087
2629	AGGAAGG G UGUGCGU	3780	ACCGACA GCCGAAAGGCGAGUGAGGUCU UCCUUCU	19088
2631	GAAGAGU G UGCGGUCU	3781	AGACCGCA GCCGAAAGGCGAGUGAGGUCU ACUCUUC	19089
2633	AGAGUGU G CGGUCUAC	3782	GUAGACCG GCCGAAAGGCGAGUGAGGUCU ACACUCCU	19090
2636	AGUGUGG G UCUCAGU	3783	AUCGUAGA GCCGAAAGGCGAGUGAGGUCU CGCACAU	19091
2647	UACGAUA G UUUCAGA	3784	UCUGGAA GCCGAAAGGCGAGUGAGGUCU UGAUCGUA	19092
2661	AGACUGG G CAUCAAU	3785	AUUUGAU GCCGAAAGGCGAGUGAGGUCU UCCAGUCU	19093
2670	CAUCAAA G UGGGAAGC	3786	GUUCCCA GCCGAAAGGCGAGUGAGGUCU AUUGAUG	19094
2677	UGUGGAA G CAGUGAAG	3787	CUUCACUG GCCGAAAGGCGAGUGAGGUCU UUCCACA	19095
2680	GGGAAGCA G UGAAGGAC	3788	GUCCUUA GCCGAAAGGCGAGUGAGGUCU UGUUCCC	19096
2691	AAGGACGA G CUGAACAC	3789	GUGUUCAG GCCGAAAGGCGAGUGAGGUCU UCGUCCU	19097
2717	GGAGAAU G UGUGGACC	3790	GGUCCACA GCCGAAAGGCGAGUGAGGUCU CAUUCUCC	19098
2719	AGAAUGU G UGGACCUU	3791	AAGGUCCA GCCGAAAGGCGAGUGAGGUCU ACCAUTU	19099
2729	GGACCUA G UGUGUGG	3792	CCACGACA GCCGAAAGGCGAGUGAGGUCU UAGGUCC	19100
2731	ACCUUAGU G UGUGUGU	3793	AACCACGA GCCGAAAGGCGAGUGAGGUCU ACUAAGU	19101
2734	UUAGUGU G UGUUGAG	3794	CUCAACCA GCCGAAAGGCGAGUGAGGUCU GACACUA	19102
2737	GUGUGUG G UUGAGAA	3795	UUUCUCAA GCCGAAAGGCGAGUGAGGUCU CACGACAC	19103
2757	GAGGAAU G UACAAGUC	3796	GACUUGUA GCCGAAAGGCGAGUGAGGUCU AUUCCUC	19104
2763	AUGUACAA G UCAGCACC	3797	GGUGCUGA GCCGAAAGGCGAGUGAGGUCU UUGUACAU	19105
2767	ACAAGUCA G CACCUAAA	3798	UUUAGUG GCCGAAAGGCGAGUGAGGUCU UGACUUGU	19106
2777	ACCUAAC G CCUCACCG	3799	CGUGAGG GCCGAAAGGCGAGUGAGGUCU GUUAGGU	19107
2785	GCUCACC G CCACCAG	3800	CGUGUGG GCCGAAAGGCGAGUGAGGUCU GGUGAGG	19108
2810	GGAAUUG G CUGGAAG	3801	CUUCCAG GCCGAAAGGCGAGUGAGGUCU CAUUUCC	19109
2818	GCUGGAG G CCUGGGGA	3802	UCCCCAG GCCGAAAGGCGAGUGAGGUCU CUUCCAGC	19110
2831	GGGAAGA G UAUUUUAU	3803	AUAAAUA GCCGAAAGGCGAGUGAGGUCU UCUUCCC	19111
2842	UUUAUUU G CACCAGAA	3804	UUCUGUG GCCGAAAGGCGAGUGAGGUCU AAUUAUA	19112
2854	CAGAAUC G CCAACAAC	3805	GUUGUUG GCCGAAAGGCGAGUGAGGUCU GAGUUCU	19113
2869	ACACCUU G UGGUUGAU	3806	AUCAACCA GCCGAAAGGCGAGUGAGGUCU AAAGGUG	19114
2872	CCUUUGU G UGAUGGU	3807	ACCAUCA GCCGAAAGGCGAGUGAGGUCU CACAAGG	19115
2879	GGUUGAU G UCCGGAGA	3808	UCUCCGA GCCGAAAGGCGAGUGAGGUCU CAUCAACC	19116
2897	CAAGGAU G UCCGACUC	3809	GAGUCGA GCCGAAAGGCGAGUGAGGUCU AUUCCUUG	19117
2912	UCAGAAU G CGCUUGGA	3810	UCCAAGC GCCGAAAGGCGAGUGAGGUCU GAUUCUGA	19118
2914	AGAUGGC G CUUGGAU	3811	AUCCAAAG GCCGAAAGGCGAGUGAGGUCU GCGAUTU	19119
2924	UUGGAUA G CUUGAAG	3812	CUUCUAG GCCGAAAGGCGAGUGAGGUCU UAUUCCA	19120
2932	GUUAGAA G UGGAGGAU	3813	AUCCUCA GCCGAAAGGCGAGUGAGGUCU UUCUAAGC	19121
2951	UGGAUUU G UCUCACCA	3814	UGGUGAGA GCCGAAAGGCGAGUGAGGUCU CAAAUCCA	19122
2960	UCUCACCA G CACUCGGA	3815	UCGAGUG GCCGAAAGGCGAGUGAGGUCU UGGUGAGA	19123
2970	ACUGGAU G UUCUGAA	3816	UUCAGGAA GCCGAAAGGCGAGUGAGGUCU AUCCGAGU	19124
2980	UCCUGAG G UCAGAGAG	3817	CUUCUGA GCCGAAAGGCGAGUGAGGUCU CUUCAGGA	19125

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2990	CAGAGAGA G CAACACAA	3818	UUGUGUUG GCCGAAAGGCGAGUGAGGUCU UCUCUCUG	19126
3005	AACUGAAU G UGACUCGA	3819	UCGAGUCA GCCGAAAGGCGAGUGAGGUCU AUTCAGUU	19127
3028	UUGGAACG G CUGACAAG	3820	CUAGACAG GCCGAAAGGCGAGUGAGGUCU CGUOCCAA	19128
3031	GAACGGCU G UCAAGAAC	3821	GUUCUUGA GCCGAAAGGCGAGUGAGGUCU AGCGUUC	19129
3046	ACAACUUG G CGAUCCAC	3822	GUGGAUCG GCCGAAAGGCGAGUGAGGUCU CAAGUUG	19130
3056	GAUCCACA G UGACCCUG	3823	ACAGGUCA GCCGAAAGGCGAGUGAGGUCU UGUGGAUC	19131
3063	AGUGACCU G UCCUAUUG	3824	CAAUAGGA GCCGAAAGGCGAGUGAGGUCU AGGUCACU	19132
3080	GAUUGAAA G CAGGCUCA	3825	UGAGCCUG GCCGAAAGGCGAGUGAGGUCU UUDCAUUC	19133
3084	GAAGCAG G CUCAAUGA	3826	UCAUUGAG GCCGAAAGGCGAGUGAGGUCU CUGCUUUC	19134
3096	AUUGAUAC G UGGAAGCU	3827	AGCUUCCA GCCGAAAGGCGAGUGAGGUCU GUUAUUAU	19135
3102	ACGUGGAA G CUUGAAAG	3828	CUUUCUAG GCCGAAAGGCGAGUGAGGUCU UUCACACU	19136
3112	UUGAAAGG G CAGUUCUG	3829	CAGAACTG GCCGAAAGGCGAGUGAGGUCU CCUUUCAA	19137
3115	AAAGGCCA G UUCUGGGU	3830	ACCCAGAA GCCGAAAGGCGAGUGAGGUCU UGCCUUUU	19138
3122	AGUUCUGG G UGAAGUCA	3831	UGACUUCA GCCGAAAGGCGAGUGAGGUCU CCAGAACU	19139
3127	UGGUGGAA G UCAAAUCA	3832	UGAUUUGA GCCGAAAGGCGAGUGAGGUCU UUCACCCA	19140
3137	CAAUUCAU G UACGUGGC	3833	GCCACGUA GCCGAAAGGCGAGUGAGGUCU AUGAUUUG	19141
3141	UCAUGUAC G UGGCCUGA	3834	UCAGGCCA GCCGAAAGGCGAGUGAGGUCU GUACAUGA	19142
3144	UGUACGUG G CCUGAGAC	3835	GUCUCAGG GCCGAAAGGCGAGUGAGGUCU CACGUACA	19143
3153	CCUGAGAC G CAUACCTU	3836	AAGGUUUG GCCGAAAGGCGAGUGAGGUCU GUTCACAG	19144
3162	CAUACCTU G UGGGGCGA	3837	UCGCCCCA GCCGAAAGGCGAGUGAGGUCU AAGGUUUG	19145
3167	CUUGUGGG G CGAUGGAA	3838	UUCCAUCG GCCGAAAGGCGAGUGAGGUCU CCCACAAG	19146
3185	CCUUGAGA G UGACUUGA	3839	UCAAGUCA GCCGAAAGGCGAGUGAGGUCU UCUCAAGG	19147
3202	UAUUAACA G UGACACUG	3840	CAGUGUGA GCCGAAAGGCGAGUGAGGUCU UGGUAUUA	19148
3211	UCACACUG G CGGGACCA	3841	UGGUCCCG GCCGAAAGGCGAGUGAGGUCU CAGUGUGA	19149
3224	ACCACGAA G CAUUCACA	3842	UGUGAUUG GCCGAAAGGCGAGUGAGGUCU UUCGUGGU	19150
3246	AGACCUUG G UACAAGAC	3843	GUCUUGUA GCCGAAAGGCGAGUGAGGUCU CCAGGUCU	19151
3266	AAACCAAG G CCAUUGGG	3844	CCCAUUGG GCCGAAAGGCGAGUGAGGUCU CCUGGUUU	19152
3281	GGACGAAG G CCGGGUAG	3845	CUACCCGG GCCGAAAGGCGAGUGAGGUCU CUUCGUCC	19153
3286	AAGGCCGG G UAGAGAUU	3846	AAUCUCUA GCCGAAAGGCGAGUGAGGUCU CCGGCCUU	19154
3308	CGAUUACU G CCCAGGAA	3847	UUCUUGGG GCCGAAAGGCGAGUGAGGUCU AGUAAUUC	19155
3322	GAACUACG G UCACCCUG	3848	CAGGUGUA GCCGAAAGGCGAGUGAGGUCU CGUAGUUC	19156
3332	CACCCUGA G UGAGAGCU	3849	AGCUUCA GCCGAAAGGCGAGUGAGGUCU UCAGGGUG	19157
3338	GAGUGAGA G CUGCGGAC	3850	GUCCGCAG GCCGAAAGGCGAGUGAGGUCU UCUCACUC	19158
3341	UGAGAGCU G CGGACACC	3851	GGUGUCQG GCCGAAAGGCGAGUGAGGUCU AGCUCUCA	19159
3350	CGGACACC G UGGACCTUG	3852	CAGGUCCA GCCGAAAGGCGAGUGAGGUCU GGUGUCCG	19160
3358	GUGGACCU G CCACUUGC	3853	GCGAGUGG GCCGAAAGGCGAGUGAGGUCU AGGUCCAC	19161
3365	UGCCACUC G CACCACCA	3854	UGGUGGUG GCCGAAAGGCGAGUGAGGUCU GAGUGGCA	19162
3380	CACAGAGA G CGGAAAGU	3855	ACUUDCCG GCCGAAAGGCGAGUGAGGUCU UCUCUGUG	19163
3387	AGCGGAAA G UUGAUUAC	3856	GUUAUCAA GCCGAAAGGCGAGUGAGGUCU UUDCCGCU	19164
3402	ACAGAUUG G UGCUGCAG	3857	CUGCAGCA GCCGAAAGGCGAGUGAGGUCU CAAUCUGU	19165

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3404	AGAUUGGU G CUGCAGGA	3858	UCCUGCAG GCCGAAAGGCGAGUGAGGUCU ACCAAUCU	19166
3407	UUGGUGCU G CAGGAGCU	3859	AGCUCCUG GCCGAAAGGCGAGUGAGGUCU AGCACCAG	19167
3413	CUGCAGGA G CUGCACCU	3860	AGGUGCAG GCCGAAAGGCGAGUGAGGUCU UCCUGCAG	19168
3416	CAGGAGCU G CACCUUAC	3861	GUAAGGUG GCCGAAAGGCGAGUGAGGUCU AGCUCUUG	19169
3432	CCACCACU G CGCUACCA	3862	UGGUAGCG GCCGAAAGGCGAGUGAGGUCU AGUGGUGG	19170
3434	ACCACUGC G CUACCAAA	3863	UUUGGUAG GCCGAAAGGCGAGUGAGGUCU GCAGUGGU	19171
3449	AACUGACA G CGGUGU	3864	AACAGCGG GCCGAAAGGCGAGUGAGGUCU UGUCAGUU	19172
3452	UGACAGCG G CUGUUGGU	3865	ACCAACAG GCCGAAAGGCGAGUGAGGUCU CGCUGUCA	19173
3455	CAGCGGCU G UUGGUAUG	3866	CAUACCAA GCCGAAAGGCGAGUGAGGUCU AGCCGCUG	19174
3459	GGCUGUUG G UAUUGUAU	3867	AUACCAUA GCCGAAAGGCGAGUGAGGUCU CAACAGCC	19175
3464	UUGGUUUG G UAUUGAGA	3868	UUCUCAUA GCCGAAAGGCGAGUGAGGUCU CAUACCAA	19176
3505	AGACCCUC G UGCAGUCA	3869	UGACUGCA GCCGAAAGGCGAGUGAGGUCU GAGGUCU	19177
3507	ACCCUCGU G CAGUCACA	3870	UGUGACUG GCCGAAAGGCGAGUGAGGUCU ACGAGGCU	19178
3510	CUCGUGCA G UCAACAAG	3871	ACUUGUGA GCCGAAAGGCGAGUGAGGUCU UGCACGAG	19179
3517	AGUCACAA G UGAUUGCU	3872	AGCAUACA GCCGAAAGGCGAGUGAGGUCU UUGUGACU	19180
3523	AAGUGAAU G CUUAUAU	3873	AUUAUAAG GCCGAAAGGCGAGUGAGGUCU AUUCACUU	19181
3532	CUUAUAU G CUGAUUUG	3874	CAUAUACG GCCGAAAGGCGAGUGAGGUCU AUUAUAAG	19182
3555	CCUUUUA G UUGGGCCU	3875	AGGCCCAA GCCGAAAGGCGAGUGAGGUCU UGAAUAAG	19183
3560	UCAGUUGG G CCUUCUGG	3876	CCAGAAGG GCCGAAAGGCGAGUGAGGUCU CCAACUGA	19184
3568	GCUUCUG G UCGUGUDC	3877	GAACACGA GCCGAAAGGCGAGUGAGGUCU CAGAAGGC	19185
3571	UUCUGGUC G UGUUCUUG	3878	CAAGAACA GCCGAAAGGCGAGUGAGGUCU GACCAGAA	19186
3573	CUGGUCGU G UUCUUGGC	3879	GCCAAGAA GCCGAAAGGCGAGUGAGGUCU ACGACCAG	19187
3580	UGUUCUG G CCACCCAG	3880	CUGGUGG GCCGAAAGGCGAGUGAGGUCU CAAGAACA	19188
3592	CCCAGGAG G UCUUCGCG	3881	GCGAAGGA GCCGAAAGGCGAGUGAGGUCU CUCCUGGG	19189
3599	GGUCCUUC G CAAGAGGU	3882	ACCUCUUG GCCGAAAGGCGAGUGAGGUCU GAAGGACC	19190
3606	CGAAGAG G UGGACAGC	3883	GCUGUCCA GCCGAAAGGCGAGUGAGGUCU CUUUGCG	19191
3613	GGUGGACA G CCAAGAUC	3884	GAUCUUGG GCCGAAAGGCGAGUGAGGUCU UGUCCACC	19192
3623	CAAGAUA G CAUGCCAG	3885	CUGGCAUG GCCGAAAGGCGAGUGAGGUCU UGAUCUUG	19193
3627	AUCAGCAU G CCAGCUAU	3886	AUAGCUUG GCCGAAAGGCGAGUGAGGUCU AUGTUGAU	19194
3631	GCAUGCCA G CUUAUCUG	3887	CAGUAUAG GCCGAAAGGCGAGUGAGGUCU UGGCAUGC	19195
3643	UACUGAUU G CUCUGCUA	3888	UAGCAGAG GCCGAAAGGCGAGUGAGGUCU AAUCAGUA	19196
3648	AUUGCUU G CUAGUCCU	3889	AGGACUAG GCCGAAAGGCGAGUGAGGUCU AGAGCAAU	19197
3652	CUCUGCUA G UCCUGGUG	3890	CACCAGGA GCCGAAAGGCGAGUGAGGUCU UAGCAGAG	19198
3658	UAGUCCUG G UGUUUGGG	3891	CCCAACA GCCGAAAGGCGAGUGAGGUCU CAGGACUA	19199
3660	GUCCUGGU G UUUUGGGG	3892	CCCCAAA GCCGAAAGGCGAGUGAGGUCU ACCAGGAC	19200
3668	GUUUGGG G CAUUAUUU	3893	AAGUAUUG GCCGAAAGGCGAGUGAGGUCU CCCAAAC	19201
3685	ACACUGAU G UGUUACGC	3894	GGUAACA GCCGAAAGGCGAGUGAGGUCU AUCAGUGU	19202
3687	ACUGAUGU G UUAACGCUA	3895	UAGCGUAA GCCGAAAGGCGAGUGAGGUCU ACAUCAGU	19203
3692	UGUGUUAC G CUAUGUCA	3896	UGACAUAG GCCGAAAGGCGAGUGAGGUCU GUAAACACA	19204
3697	UACGCUAU G UCAUCUUG	3897	CAAGAUA GCCGAAAGGCGAGUGAGGUCU AUAGCGUA	19205

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3706	UCAUCUUG G UGGGGGCA	3898	UGCCCCCA GCCGAAAGCGAGUGAGGUCU CAAGAUGA	19206
3712	UGGUGGG G CAGCUUUC	3899	GAAAGCUG GCCGAAAGCGAGUGAGGUCU CCCACCA	19207
3715	UGGGGGCA G CUUUCGCA	3900	UGCGAAAG GCCGAAAGCGAGUGAGGUCU UGCCCCCA	19208
3721	CAGCUUUC G CAGAAUCU	3901	AGAUUCUG GCCGAAAGCGAGUGAGGUCU GAAAGCUG	19209
3745	GAGGAGAC G UGUUACAC	3902	GUGUACCA GCCGAAAGCGAGUGAGGUCU GUCUCCUC	19210
3748	GAGACGUG G UACACUUG	3903	CAAGUGUA GCCGAAAGCGAGUGAGGUCU CACGUCUC	19211
3757	UACACUUG G CGCUCAUG	3904	CAUGAGCG GCCGAAAGCGAGUGAGGUCU CAAAGUGA	19212
3759	CACUUGGC G CUCAUGGC	3905	GCCAUGAG GCCGAAAGCGAGUGAGGUCU GCCAAGUG	19213
3766	CGCUCAUG G CGACCUUC	3906	GAAGGUCG GCCGAAAGCGAGUGAGGUCU CAUGAGCG	19214
3787	UACAACCA G UGUUUAUG	3907	CAUAAACA GCCGAAAGCGAGUGAGGUCU UGGUUGUA	19215
3789	CAACCAAG G UUUUAUGU	3908	ACCAUAAA GCCGAAAGCGAGUGAGGUCU ACUGGUUG	19216
3796	UGUUUAUG G UGGCAUCG	3909	CGAUGCCA GCCGAAAGCGAGUGAGGUCU CAUAAACA	19217
3799	UUUAUGUG G CAUCGUUU	3910	AAACGAUG GCCGAAAGCGAGUGAGGUCU CACCAUAA	19218
3804	GUGGCAUC G UUUCUCAA	3911	UUGAATAA GCCGAAAGCGAGUGAGGUCU GAUGCCAC	19219
3814	UUCUCAAA G CGAGAUGG	3912	CCAUCUCG GCCGAAAGCGAGUGAGGUCU UUGAGAA	19220
3843	AACAUUUU G UUGAUGUU	3913	AACAUCAA GCCGAAAGCGAGUGAGGUCU AAAAUGUU	19221
3849	UUGUUGAU G UUGGGCG	3914	GCCGCCAA GCCGAAAGCGAGUGAGGUCU AUCACAA	19222
3853	UGAUGUUG G CGGCUUUU	3915	AACAGCCG GCCGAAAGCGAGUGAGGUCU CAACAUA	19223
3856	UGUUGGCG G CUGUUUUC	3916	GAATAACG GCCGAAAGCGAGUGAGGUCU CGCCAACA	19224
3859	UGGCGGCU G UUUUCUUU	3917	AAAGAAAA GCCGAAAGCGAGUGAGGUCU AGCCGCCA	19225
3874	UUCAAUUG G CUUAUCAC	3918	GUGAUAAG GCCGAAAGCGAGUGAGGUCU CAUUUGAA	19226
3886	AUCACGAU G CCGGCCAA	3919	UUGGCGGG GCCGAAAGCGAGUGAGGUCU AUCGUGAU	19227
3890	CGAUGCCC G CCAAUUC	3920	GAUUUUGG GCCGAAAGCGAGUGAGGUCU GGGCAUCG	19228
3900	CAAAUUCU G CUCUGGGA	3921	UCCACAGG GCCGAAAGCGAGUGAGGUCU AGAAUUUG	19229
3919	UCCCUGAU G UGUUGAAU	3922	AUUCACAA GCCGAAAGCGAGUGAGGUCU AUCAGGGA	19230
3921	CCUGAUGU G UUGAAUUC	3923	GAATUCAA GCCGAAAGCGAGUGAGGUCU ACAUCAGG	19231
3934	AUUCACUG G CGGUAGCU	3924	AGCUACCG GCCGAAAGCGAGUGAGGUCU CAGUGAAU	19232
3937	CACUGGCG G UAGCUUUG	3925	CCAAGCUA GCCGAAAGCGAGUGAGGUCU CGCCAGUG	19233
3940	UGGCGGUA G CUUGGAUG	3926	CAUCCAAG GCCGAAAGCGAGUGAGGUCU UACCGCCA	19234
3958	UACUGAGA G CCAUAACA	3927	UGUUUAUG GCCGAAAGCGAGUGAGGUCU UUCACAGU	19235
3985	CAUCAAAC G UGUUUGUU	3928	AACAACCA GCCGAAAGCGAGUGAGGUCU GUUUGAUG	19236
3988	CAAAACUG G UUGUUCGG	3929	CGGAACAA GCCGAAAGCGAGUGAGGUCU CACGUUUG	19237
3991	ACGUGGUU G UUCGCGUG	3930	CAGCGGAA GCCGAAAGCGAGUGAGGUCU AACCAACG	19238
3996	GUUGUUCG G CUGCUAGC	3931	GUUAGCAG GCCGAAAGCGAGUGAGGUCU GGAACAAC	19239
3999	GUUCCGCU G CUAGCCCU	3932	AGGCUUAG GCCGAAAGCGAGUGAGGUCU AGCGGAAC	19240
4003	CGCUGCUA G CCCUGCUA	3933	UAGCAGGG GCCGAAAGCGAGUGAGGUCU UAGCAGCG	19241
4008	CUAGCCCU G CUAAACAC	3934	GGUGUUAG GCCGAAAGCGAGUGAGGUCU AGGCGUAG	19242
4020	ACACCCGG G CUGAGAUG	3935	CAUCUCAG GCCGAAAGCGAGUGAGGUCU CCGGGUGU	19243
4028	GCUGAGAU G CUUGAAUC	3936	GAUUCAG GCCGAAAGCGAGUGAGGUCU AUCUCAGC	19244
4042	AUCUGGAU G UGUACAGG	3937	CCUGUACA GCCGAAAGCGAGUGAGGUCU AUCCAGAU	19245

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4044	CUGGAUGU G UACAGGAU	3938	AUCCUGUA GCCGAAAGGCGAGUGAGGUU ACAUCCAG	19246
4056	AGGAUACU G CUGUUGAU	3939	AUCAACAG GCCGAAAGGCGAGUGAGGUU AGUAUCCU	19247
4059	AUACUGCU G UUGAUGGU	3940	ACCAUCA GCCGAAAGGCGAGUGAGGUU AGCAGUAU	19248
4066	UGUUGAUG G UCGGAUAU	3941	UAUUCGA GCCGAAAGGCGAGUGAGGUU CAUCAACA	19249
4076	CGGAUAG G CAGCUUGA	3942	UCAAGCUG GCCGAAAGGCGAGUGAGGUU CUUAUCCG	19250
4079	AAUAGGA G CUUGAUCA	3943	UGAUCAG GCCGAAAGGCGAGUGAGGUU UGCCUAUU	19251
4100	GAAGAGGA G UGCAGCUG	3944	CAGCUGCA GCCGAAAGGCGAGUGAGGUU UCCUCUUC	19252
4102	AGAGAGU G CAGCUGCA	3945	UGCAGCUG GCCGAAAGGCGAGUGAGGUU ACUCCUCU	19253
4105	GGAGUGCA G CUGCAAAA	3946	UUUUGCAG GCCGAAAGGCGAGUGAGGUU UGCACUCC	19254
4108	GUGCAGCU G CAAAAAAG	3947	CUUUUUUG GCCGAAAGGCGAGUGAGGUU AGCUGCAC	19255
4123	AGAAAGGA G CAAGUCUG	3948	CAGACUUG GCCGAAAGGCGAGUGAGGUU UCCUUUUC	19256
4127	AGGAGCAA G UCUGCUAU	3949	AUAGCAGA GCCGAAAGGCGAGUGAGGUU UUGCUCUU	19257
4131	GCAAGUCU G CUAUGCUU	3950	AAGCAUAG GCCGAAAGGCGAGUGAGGUU AGACUUGC	19258
4136	UCUGCUAU G CUUGGCUC	3951	GAGCCAAG GCCGAAAGGCGAGUGAGGUU AUAGCAGA	19259
4141	UAUGCUG G CUCUAGCC	3952	GGCUAGAG GCCGAAAGGCGAGUGAGGUU CAAGCAUA	19260
4147	UGGCUCUA G CCUCAACA	3953	UGUUGAGG GCCGAAAGGCGAGUGAGGUU UAGAGCCA	19261
4180	UGAUCCUU G CUGCUGGA	3954	UCCAGCAG GCCGAAAGGCGAGUGAGGUU AAGBAUCA	19262
4183	UCCUUGCU G CUGGACUG	3955	CAGUCCAG GCCGAAAGGCGAGUGAGGUU AGCAAGGA	19263
4195	GACUGAUU G CAUGUGAU	3956	AUCACAUU GCCGAAAGGCGAGUGAGGUU AAUCAGUC	19264
4199	GAUUGCAU G UGAUCCCA	3957	UGGGAUCA GCCGAAAGGCGAGUGAGGUU AUGCAAUC	19265
4211	UCCCAACC G UAAACGGG	3958	CGGUUUUA GCCGAAAGGCGAGUGAGGUU GGUUGGGA	19266
4217	CCGUAAAC G CGGAUUGC	3959	GCCAUCCG GCCGAAAGGCGAGUGAGGUU GUUUACGG	19267
4224	CGCGGAUG G CCGCCAAC	3960	GUUGCGGG GCCGAAAGGCGAGUGAGGUU CAUCCGGG	19268
4228	GAUGGCCC G CAAUCGAA	3961	UUCAGUUG GCCGAAAGGCGAGUGAGGUU GGGCCAUU	19269
4237	CAACUGAA G UGAUGACA	3962	UGUCAUCA GCCGAAAGGCGAGUGAGGUU UUCAGUUG	19270
4246	UGAUGACA G CUGUCGGC	3963	GCCGACAG GCCGAAAGGCGAGUGAGGUU UGUCAUCA	19271
4249	UGACAGCU G UCGGCCUA	3964	UAGGCCGA GCCGAAAGGCGAGUGAGGUU AGCUGUCA	19272
4253	AGCUGUCG G CCUAUUGU	3965	ACAUUAGG GCCGAAAGGCGAGUGAGGUU CGACAGCU	19273
4260	GGCCUAAU G UUGCCCAU	3966	AUGGCCAA GCCGAAAGGCGAGUGAGGUU AUUAGGCC	19274
4264	UUAUGUUU G CCAUCGUC	3967	GACGAUGG GCCGAAAGGCGAGUGAGGUU AAACAUAU	19275
4270	UUGCCAUC G UCGGAGGG	3968	CCUCCCGA GCCGAAAGGCGAGUGAGGUU GAUGGCAA	19276
4278	GUCGGAGG G CUGGCAGA	3969	UCUGCCAG GCCGAAAGGCGAGUGAGGUU CCUCCGAC	19277
4282	GAGGCGUG G CAGAGCUU	3970	AAGCUCUG GCCGAAAGGCGAGUGAGGUU CAGCCUUC	19278
4287	CUGGCAGA G CUUGACAU	3971	AUGUCAAG GCCGAAAGGCGAGUGAGGUU UCUGCCAG	19279
4306	ACUCCAUC G CCAUCCCA	3972	UGGAUUGG GCCGAAAGGCGAGUGAGGUU CAUGGAGU	19280
4324	UGACUAUC G CGGGGCUC	3973	GAGCCCGG GCCGAAAGGCGAGUGAGGUU GAUAGUCA	19281
4329	AUCGCGGG G CUCAUGUU	3974	AACAUGAG GCCGAAAGGCGAGUGAGGUU CCGCGAU	19282
4335	GGGCUCAU G UUGUCUGC	3975	GCAGCAAA GCCGAAAGGCGAGUGAGGUU AUGAGCCC	19283
4339	UCAUGUUU G CUGCUUUC	3976	GAAGCAG GCCGAAAGGCGAGUGAGGUU AAACAUGA	19284
4342	UGUUGUCU G CUUUCGUG	3977	CACGAAAG GCCGAAAGGCGAGUGAGGUU AGCAAACA	19285

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4348	CUGCUUUC	G	UGAUUUUCU	3978	AGAAUUA	GCCGAAAGGCGAGUGAGGUCU	GAAAGCAG	19286
4374	ACAGAUU	G	UGGAUUGA	3979	UCAAUCCA	GCCGAAAGGCGAGUGAGGUCU	AUAUCUGU	19287
4390	AGAGAACG	G	CGGACAUU	3980	AAUGUCGG	GCCGAAAGGCGAGUGAGGUCU	CGUUCUCU	19288
4409	CUGGGAAG	G	UGAUGCAG	3981	CUGCAUCA	GCCGAAAGGCGAGUGAGGUCU	UUUCCCG	19289
4414	AAAGUGAU	G	CAGAAAUU	3982	AAUUCUCG	GCCGAAAGGCGAGUGAGGUCU	AUCACUUU	19290
4427	AAUUAACG	G	CUCGAGCG	3983	CGCUCGAG	GCCGAAAGGCGAGUGAGGUCU	CUGUAUUU	19291
4433	AGGCUCCA	G	CGAAAGAG	3984	CUCUUCUG	GCCGAAAGGCGAGUGAGGUCU	UCGAGCCU	19292
4441	GCGAAAGA	G	UUGAUGUG	3985	CACAUCAA	GCCGAAAGGCGAGUGAGGUCU	UCUUCGCG	19293
4447	GAGUUGAU	G	UCGCGCUU	3986	AAGCCGCA	GCCGAAAGGCGAGUGAGGUCU	AUCAACUC	19294
4449	GUUGAUGU	G	CGGCUUGA	3987	UCAAGCCG	GCCGAAAGGCGAGUGAGGUCU	ACAUCAAC	19295
4452	GAUGUGCG	G	CUUGAUGA	3988	UCAUCAAG	GCCGAAAGGCGAGUGAGGUCU	CGCACAUU	19296
4476	AACUCCA	G	CUCAUGAA	3989	UUAUGAG	GCCGAAAGGCGAGUGAGGUCU	UGGAAGUU	19297
4495	AUCCAGGA	G	CACCUUGG	3990	CCAAGGUG	GCCGAAAGGCGAGUGAGGUCU	UCCUGGAU	19298
4515	AUAUGGAU	G	CUCAGAAU	3991	AUUCUGAG	GCCGAAAGGCGAGUGAGGUCU	AUCCAUAU	19299
4525	UCAGAAUG	G	UCUGUCUC	3992	GAGACAGA	GCCGAAAGGCGAGUGAGGUCU	CAUUCUGA	19300
4529	AAUGGUCU	G	UCUCGCGA	3993	UCGCGAGA	GCCGAAAGGCGAGUGAGGUCU	AGACCAUU	19301
4534	UCUGUCUC	G	CGAUUAGU	3994	ACUAAUUG	GCCGAAAGGCGAGUGAGGUCU	GAGACAGA	19302
4541	CGCGAUUA	G	UGCGUACA	3995	UGUACGCA	GCCGAAAGGCGAGUGAGGUCU	UAAUCGCG	19303
4543	CGAUUAGU	G	GUACACAC	3996	GGUGUACG	GCCGAAAGGCGAGUGAGGUCU	ACUAAUCG	19304
4545	AUUAUGC	G	UACACCCC	3997	GGGUGUGA	GCCGAAAGGCGAGUGAGGUCU	CCACUAAU	19305
4558	CCCCUUG	G	CAUUCUUG	3998	CAAGAUUG	GCCGAAAGGCGAGUGAGGUCU	CCAGGGGG	19306
4566	GCAAUUUU	G	CCUUCAGU	3999	ACUGAGGG	GCCGAAAGGCGAGUGAGGUCU	AAGAUUGC	19307
4573	UGCCCUCA	G	UAGUUGGA	4000	UCCAAUUA	GCCGAAAGGCGAGUGAGGUCU	UGAGGGCA	19308
4576	CCUCAGUA	G	UUGGAUUU	4001	AAAUCCAA	GCCGAAAGGCGAGUGAGGUCU	UACUGAGG	19309
4616	GAGAGGAG	G	CGUGUUGU	4002	ACAACAGG	GCCGAAAGGCGAGUGAGGUCU	CUCCUCUC	19310
4618	GAGGAGGC	G	UGUUGUGG	4003	CCACACAA	GCCGAAAGGCGAGUGAGGUCU	GCCUCCUC	19311
4620	GGAGGCGU	G	UUGUGGGA	4004	UCCACAAA	GCCGAAAGGCGAGUGAGGUCU	ACGCCUCC	19312
4623	GGCGUGUU	G	UGGGACAC	4005	GUGUCCCA	GCCGAAAGGCGAGUGAGGUCU	AACACGCC	19313
4647	CCAAGGA	G	UACAAAAA	4006	UUUUUGUA	GCCGAAAGGCGAGUGAGGUCU	UCCUUUGG	19314
4673	GACCACCG	G	CGUCUACA	4007	UGUAGACG	GCCGAAAGGCGAGUGAGGUCU	CGGUGGUC	19315
4675	CCACCGGC	G	UCUACAGG	4008	CTUGUAGA	GCCGAAAGGCGAGUGAGGUCU	GCCGGUGG	19316
4694	CAUGACUC	G	UGGGCUGC	4009	GCAGCCCA	GCCGAAAGGCGAGUGAGGUCU	GAGUCAUG	19317
4698	ACUCGUGG	G	CUGCUCGG	4010	CCGAGCAG	GCCGAAAGGCGAGUGAGGUCU	CCACGAGU	19318
4701	CGUGGGCU	G	CUCGGCAG	4011	CUGCCGAG	GCCGAAAGGCGAGUGAGGUCU	AGCCACAG	19319
4706	GCUGCUUG	G	CAGUUAUC	4012	GAUUAUUG	GCCGAAAGGCGAGUGAGGUCU	CGAGCAGC	19320
4709	GCUCGGCA	G	UUAUCAAG	4013	CUUGAUAA	GCCGAAAGGCGAGUGAGGUCU	UGCCGAGC	19321
4717	GUUAUCAA	G	CAGGAGCG	4014	CGCUCUCG	GCCGAAAGGCGAGUGAGGUCU	UUGAUAAU	19322
4723	AAGCAGGA	G	CGGGCGUG	4015	CACGCCCG	GCCGAAAGGCGAGUGAGGUCU	UCCUGCUU	19323
4727	AGGAGCGG	G	CGUGAUGG	4016	CCAUCACG	GCCGAAAGGCGAGUGAGGUCU	CCGCUCCU	19324
4729	GAGCGGCG	G	UGAUGGUU	4017	AACCAUCA	GCCGAAAGGCGAGUGAGGUCU	GCCCGCUC	19325

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4735	GCUGAUG G UUGAAGGU	4018	ACCUUCAA GCCGAAAGCGAGUGAGGUU CAUCACGC	19326
4742	GGUGAAG G UGUUUUCC	4019	GGAAACA GCCGAAAGCGAGUGAGGUU CUUCAACC	19327
4744	UUGAAGGU G UUUUCCAC	4020	GUGGAAA GCCGAAAGCGAGUGAGGUU ACCUUCAA	19328
4761	ACCUUUG G UUAACAAC	4021	GUUGUUG GCCGAAAGCGAGUGAGGUU CAAAGGGU	19329
4777	CAAAGGA G CCGCUUUG	4022	CAAAGCG GCCGAAAGCGAGUGAGGUU UCCUUUUG	19330
4780	AAGAGCC G CUUUGAUG	4023	CAUCAAG GCCGAAAGCGAGUGAGGUU GGCUCUUU	19331
4790	UUUGAUG G CGGAGAGG	4024	CUUCUCG GCCGAAAGCGAGUGAGGUU UCAUCAAA	19332
4799	CGGAGAG G CCGCUUUG	4025	CGAGGCG GCCGAAAGCGAGUGAGGUU CCUCUCUG	19333
4802	AGAGGGC G CCUGGACC	4026	GGUCCAG GCCGAAAGCGAGUGAGGUU GGCCCTUC	19334
4820	AUACUGG G CAGUGUCA	4027	UGACACU GCCGAAAGCGAGUGAGGUU CCGAGUUA	19335
4823	CUUGGGCA G UGUCAAGG	4028	CCUUGAC GCCGAAAGCGAGUGAGGUU UGCCCCAG	19336
4825	GGGGCAG G UCAAGGAG	4029	CUCCUUG GCCGAAAGCGAGUGAGGUU ACUGCCCC	19337
4844	UGGACUU G UUACGGAG	4030	UUGCGUA GCCGAAAGCGAGUGAGGUU AAUUGUGA	19338
4866	UGGAAUU G CAGCAAA	4031	UUUGUCU GCCGAAAGCGAGUGAGGUU AAUUUCCA	19339
4869	AAAUUGCA G CACAAAGU	4032	CACUUGU GCCGAAAGCGAGUGAGGUU UGCAAUUU	19340
4875	CAGCACAA G UGGAACGG	4033	CCGUUUA GCCGAAAGCGAGUGAGGUU UUUGUCUG	19341
4884	UGGAACG G CAGGAUGA	4034	UCAUUCU GCCGAAAGCGAGUGAGGUU CCGUUCCA	19342
4894	AGGAUGAG G UGCAGAUU	4035	CAUCUGCA GCCGAAAGCGAGUGAGGUU CUCAUUCC	19343
4896	GAUGAGU G CAGAUGAU	4036	AUCAUCU GCCGAAAGCGAGUGAGGUU ACCUCAUC	19344
4906	AGAUGAU G UGGUGGAA	4037	UUCACCA GCCGAAAGCGAGUGAGGUU AAUCAUCU	19345
4909	UGAUUGU G UGGAACCU	4038	AGUUUCA GCCGAAAGCGAGUGAGGUU CACAAUCA	19346
4919	GGAAACU G CAAGAACG	4039	CGUUUCU GCCGAAAGCGAGUGAGGUU CAGGUUCC	19347
4927	GCAGAAC G UUAAGAAC	4040	GUUCUUA GCCGAAAGCGAGUGAGGUU GUUCUUGC	19348
4936	UUAAGAAC G UCCAGACG	4041	CGUCUGA GCCGAAAGCGAGUGAGGUU GUUCUAAA	19349
4954	AACGAGG G UGUUCAAA	4042	UUUGAAC GCCGAAAGCGAGUGAGGUU CCTUGGUU	19350
4956	CCAGGGU G UUCAAAAC	4043	GUUUUGA GCCGAAAGCGAGUGAGGUU ACCCUGG	19351
4984	AAAUCCG G CCGUGACU	4044	AGUCACG GCCGAAAGCGAGUGAGGUU CCGAUUUU	19352
4987	UCGGGGC G UGACUUUG	4045	CAAAGUA GCCGAAAGCGAGUGAGGUU GGCCCCGA	19353
5018	AACAUCA G CUCACCAA	4046	UUGUGAG GCCGAAAGCGAGUGAGGUU CUGAUGU	19354
5029	CACCAUA G UGGACAAA	4047	UUUGUCA GCCGAAAGCGAGUGAGGUU UAUUGGUG	19355
5042	CAAAACG G UGAUGUGA	4048	UCACAUA GCCGAAAGCGAGUGAGGUU CGUUUUUG	19356
5047	ACGGUGU G UGAUUGGG	4049	CCCAUAU GCCGAAAGCGAGUGAGGUU AUCACCGU	19357
5055	GUGAUUG G CUUUAUUG	4050	CCUAUAG GCCGAAAGCGAGUGAGGUU CCAAUAC	19358
5063	GUUUUUG G CAUUGGAG	4051	CUCCAUG GCCGAAAGCGAGUGAGGUU CAUAAAG	19359
5071	GCAUUGA G UCAUUAUG	4052	CAUUAUG GCCGAAAGCGAGUGAGGUU UCCAUUGC	19360
5079	GUCAUUA G CCCACCG	4053	CCGUUGG GCCGAAAGCGAGUGAGGUU AUTAUAG	19361
5087	GUCCACG G CUCAUACA	4054	UGUAUGG GCCGAAAGCGAGUGAGGUU CGUUGGCG	19362
5099	AUACAUA G CGCAUAG	4055	CUAUCGG GCCGAAAGCGAGUGAGGUU UUAUGUUA	19363
5101	ACAUAAG G CGAUAGUG	4056	CACUAUC GCCGAAAGCGAGUGAGGUU GCUUAUGU	19364
5107	GCGCGAUA G UGCAGGGU	4057	ACCCUGCA GCCGAAAGCGAGUGAGGUU UAUUGCGC	19365

Table 1

5109	GCGAUAU G CAGGGUGA	4058	GCCGAAAGGCGAGGAGGUCU ACUAUCGC	19366
5114	AGUGCAGG G UGAAGGA		AGCUUUA GCGGAAAGGCGAGGAGGUCU CCUGCAC	19367
5130	AUGGAUGA G		GGGAUUGG GCGGAAAGGCGGAGGUCU UCAUCG	19368
5140			GAUUCGG GCGGAAAGGCGGAGGUCU UGGGAG	19369
51			UUCUCAG GCGGAAAGGCGGAGGAGGUCU AUUCAG	19370
5162	AGAUACU G UACUGGA	4062	AUCCAGUA GCGGAAAGGCGGAGGAGGUCU AGUGAUCU	19371
5201	CAUCCCG G CGCGGUA	4063	UACCGCG GCGGAAAGGCGGAGGAGGUCU CGGGAUGG	19372
5203	AUCCCGG G CGGUA	4064	UUUACCG GCGGAAAGGCGGAGGAGGUCU GCCGGGAU	19373
5207	CGCGCGG G UAAACAA	4065	UUUUUUA GCGGAAAGGCGGAGGAGGUCU CGCGCGG	19374
5226	AGGAUUC G CCACAGU	4066	AUCUGUG GCGGAAAGGCGGAGGAGGUCU AGAAUCCU	19375
5245	UGAAGAG G CCAUAAC	4067	GUUUAUG GCGGAAAGGCGGAGGAGGUCU CUCUUGA	19376
5269	UGAGAACA G CCGUGUA	4068	UAGCAGG GCGGAAAGGCGGAGGAGGUCU UGUUCUCA	19377
5272	GAACAGCC G UGCUAGCA	4069	UUGUAGUA GCGGAAAGGCGGAGGAGGUCU GCGUGUUC	19378
5274	ACAGCCG G CUAGCAC	4070	GGUGCUAG GCGGAAAGGCGGAGGAGGUCU ACGGUGU	19379
5278	CCGUGCUA G CACCAUCC	4071	GGUUGUG GCGGAAAGGCGGAGGAGGUCU UAGCACGG	19380
5290	CAACCAAG G UUGUGGU	4072	AGCCACAA GCGGAAAGGCGGAGGAGGUCU CCUGGUUG	19381
5293	CCAGGGU G UGGUGGU	4073	AGCAGCCA GCGGAAAGGCGGAGGAGGUCU AACCCUGG	19382
5296	GGGUUGG G CUGUGAG	4074	CUCAGCAG GCGGAAAGGCGGAGGAGGUCU CACAACCC	19383
5299	UUGUGGU G CUGAGAG	4075	CAUCUCAG GCGGAAAGGCGGAGGAGGUCU AGCCACAA	19384
5308	CUGAGAG G CUGAAGCA	4076	UUCUUCAG GCGGAAAGGCGGAGGAGGUCU CAUUCAC	19385
5314	UGGUGAA G CACUGAGA	4077	UGUGAGUG GCGGAAAGGCGGAGGAGGUCU UUCAGCCA	19386
5328	AGAGGAGU G CCAUCCG	4078	CGGAUGGG GCGGAAAGGCGGAGGAGGUCU AGUCCUCU	19387
5337	CCAUCCG G UACAGAC	4079	GUUCUGUA GCGGAAAGGCGGAGGAGGUCU CGGAUGGG	19388
5350	AGACAUCC G CAGUGCC	4080	GGGACUUG GCGGAAAGGCGGAGGAGGUCU GGAUGUCU	19389
5353	CAUCGCA G UGCCGAGA	4081	UCUGGGCA GCGGAAAGGCGGAGGAGGUCU UGCGGAUG	19390
5355	UCCGCAU G CCGAGAGA	4082	UCUCUGGG GCGGAAAGGCGGAGGAGGUCU ACUGCGGA	19391
5383	AUGAGAU G UGAUGUC	4083	GACAUCAA GCGGAAAGGCGGAGGAGGUCU AAUCUCAU	19392
5389	UUGUUGAU G UCAUGUGU	4084	ACACAUCA GCGGAAAGGCGGAGGAGGUCU AUCAACAA	19393
5394	GAUGUCAU G UGUCAUGC	4085	GCAUGACA GCGGAAAGGCGGAGGAGGUCU AUGACAUC	19394
5396	UGUCAUGU G UCAUGCUA	4086	UAGCAUGA GCGGAAAGGCGGAGGAGGUCU ACAUGACA	19395
5401	UGUGUCAU G CUACCCUC	4087	GAGGGUAG GCGGAAAGGCGGAGGAGGUCU AUGACACA	19396
5418	ACCACAG G CUGAUGUC	4088	GACAUCAU GCGGAAAGGCGGAGGAGGUCU CUGUGGGU	19397
5424	AGGUCAGU G UCUCCUCA	4089	UGAGGAGA GCGGAAAGGCGGAGGAGGUCU AUCAGCCU	19398
5437	CUACAGG G UGCCGAAC	4090	GUUCGGCA GCGGAAAGGCGGAGGAGGUCU CCUGUGAG	19399
5439	CACAGGGU G CCGAACUA	4091	UAGUUCGG GCGGAAAGGCGGAGGAGGUCU ACCCUGUG	19400
5454	UACAACCU G UUCUGAU	4092	AUCACGAA GCGGAAAGGCGGAGGAGGUCU AGGUGUA	19401
5458	ACCUGUUC G UGAUGAU	4093	AUCCAUCA GCGGAAAGGCGGAGGAGGUCU GAACAGGU	19402
5470	UGAUGAG G CUCAUUC	4094	GAAUAG GCGGAAAGGCGGAGGAGGUCU CUCAUCCA	19403
5488	CCGACCCA G CUAGCAU	4095	AUGCUAG GCGGAAAGGCGGAGGAGGUCU UGGGUCGG	19404
5492	CCGAGCUA G CAUUGCAG	4096	CUGCAUUG GCGGAAAGGCGGAGGAGGUCU UAGCUGGG	19405

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5497	CUAGCAU G CAGCAAGA	4098	UCUUGCUG GCCGAAAGCGAGUGAGGUCU AAUGCUAG	19406
5500	GCAUUGCA G CAAGAGGU	4099	ACCUCUUG GCCGAAAGCGAGUGAGGUCU UGCAUUGC	19407
5507	AGCAAGAG G UUAUUAUU	4100	AAAUUUA GCCGAAAGCGAGUGAGGUCU CUCUUGCU	19408
5524	CCACAAAG G UCGAGCUA	4101	UAGCUCGA GCCGAAAGCGAGUGAGGUCU CUUUGUGG	19409
5529	AAGGUCGA G CUAGGGGA	4102	UCCCUUAG GCCGAAAGCGAGUGAGGUCU UCGACCUU	19410
5539	UAGGGGAG G CGGCGGCA	4103	UGCCGCCG GCCGAAAGCGAGUGAGGUCU CUCCCUUA	19411
5542	GGGAGGCG G CGGCAUUA	4104	UAUUGCCG GCCGAAAGCGAGUGAGGUCU CGCCUCCC	19412
5545	AGGCGGCG G CAAUAUUC	4105	GAUAUUG GCCGAAAGCGAGUGAGGUCU CGCCGCCU	19413
5560	UAUGACA G CACCCCA	4106	UGGGUGG GCCGAAAGCGAGUGAGGUCU UGUCAUGA	19414
5573	CCACCAG G CACUUCAG	4107	CUGAAGUG GCCGAAAGCGAGUGAGGUCU CUGUGGG	19415
5595	UUCCAGA G UCCAAUUC	4108	GAUUGGA GCCGAAAGCGAGUGAGGUCU UCUGGAA	19416
5641	CGGAUGCA G CUUGGAAC	4109	GUUCCAG GCCGAAAGCGAGUGAGGUCU UCGAUCCG	19417
5689	GGAAGAG G UUUGGUUU	4110	AAACCAA GCCGAAAGCGAGUGAGGUCU CGUCUUC	19418
5694	ACGGUUG G UUUGGCC	4111	GGCACAA GCCGAAAGCGAGUGAGGUCU CAAACCGU	19419
5698	UUUGGUU G UCCUUGU	4112	ACUAGGCA GCCGAAAGCGAGUGAGGUCU AAACCAA	19420
5700	UGGUUGU G CCUAUGU	4113	ACAUAGG GCCGAAAGCGAGUGAGGUCU ACAACCA	19421
5705	UGUGCUA G UGUCAAGA	4114	UCUUGACA GCCGAAAGCGAGUGAGGUCU UAGGCACA	19422
5707	UGCCUAG G UCAAGAUG	4115	CAUCUUGA GCCGAAAGCGAGUGAGGUCU ACUAGGCA	19423
5728	AUGAGAU G CCUUUGC	4116	GCAAAGG GCCGAAAGCGAGUGAGGUCU AAUCUCAU	19424
5735	UGCCUUU G CCUACAAC	4117	GUUGUAG GCCGAAAGCGAGUGAGGUCU AAAGGCA	19425
5744	CUACAAC G UGUGGAA	4118	UUCACGA GCCGAAAGCGAGUGAGGUCU GUUGUAGG	19426
5746	UACAACU G CUGGAAG	4119	CUUCCAG GCCGAAAGCGAGUGAGGUCU ACGUUGA	19427
5758	GAAGAA G UAGUCCAA	4120	UUGGACUA GCCGAAAGCGAGUGAGGUCU UUUCUUUC	19428
5761	AGAAAGUA G UCCAAUUG	4121	CAAUUGA GCCGAAAGCGAGUGAGGUCU UACUUUCU	19429
5778	AACAGAA G UCGUACGA	4122	UCGUACGA GCCGAAAGCGAGUGAGGUCU UUUCUGUU	19430
5781	AGAAAGU G UACGAGAC	4123	GUUCUGUA GCCGAAAGCGAGUGAGGUCU GACTUUUC	19431
5793	GAGACGA G UACCCAA	4124	UUUGGUA GCCGAAAGCGAGUGAGGUCU UCCGUCUC	19432
5804	CCCAAU G UAGAACG	4125	CGUUCUA GCCGAAAGCGAGUGAGGUCU AUUUUGG	19433
5827	GGGACUU G UUAUCACA	4126	UGUGAUA GCCGAAAGCGAGUGAGGUCU AAAGUCCC	19434
5857	AAUUGGG G CUAACUUC	4127	GAAGUUG GCCGAAAGCGAGUGAGGUCU CCCCAUUU	19435
5869	ACUUCAG G CGAGCAGG	4128	CCUGCUG GCCGAAAGCGAGUGAGGUCU CUUGAAGU	19436
5873	CAAGCGA G CAGGGUGA	4129	UCACCCUG GCCGAAAGCGAGUGAGGUCU UCGCCUUG	19437
5878	CGAGCAG G UGAUUGAC	4130	GUCAAUA GCCGAAAGCGAGUGAGGUCU CCUGCUCG	19438
5888	GAUUGCA G CCGGAAGA	4131	UCUUCGG GCCGAAAGCGAGUGAGGUCU UGUCAUUC	19439
5897	CCGGAAGA G UGUGAAC	4132	GUUUCACA GCCGAAAGCGAGUGAGGUCU UCUCUCCG	19440
5899	GGAAGAGU G UGAACCA	4133	UGGUUUA GCCGAAAGCGAGUGAGGUCU ACUCUUC	19441
5935	AAGGGAGA G UGAUCCUG	4134	CAGGAUA GCCGAAAGCGAGUGAGGUCU UCUCUUU	19442
5956	AACCAUCU G CAGUGACA	4135	UGUCACUG GCCGAAAGCGAGUGAGGUCU AGAUGGUU	19443
5959	CAUCUGCA G UGACAGCA	4136	UGCUGUA GCCGAAAGCGAGUGAGGUCU UGCAGAUG	19444
5965	CAGUGACA G CAGCUAGU	4137	ACUAGCUG GCCGAAAGCGAGUGAGGUCU UGUACACUG	19445

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5968	UGACAGCA G CUAGUGCC	4138	GGCACUAG GCCGAAAGCGAGUGAGGUCU UGCUGUCA	19446
5972	AGCAGCUA G UGCCGCC	4139	GGCGGCA GCCGAAAGCGAGUGAGGUCU UAGCUGCU	19447
5974	CAGCUAGU G CCGCCAG	4140	CUGGCGG GCCGAAAGCGAGUGAGGUCU ACUAGCUG	19448
5977	CUAGUGCC G CCGAGAG	4141	UCUCUGG GCCGAAAGCGAGUGAGGUCU GGCACUAG	19449
5987	CCAGAGAC G UGGACGUA	4142	UACGUCCA GCCGAAAGCGAGUGAGGUCU GUCUCUGG	19450
5993	ACGUGAC G UAUUGGUA	4143	UACCGAUA GCCGAAAGCGAGUGAGGUCU GUCCACGU	19451
5999	ACGUUCC G UAGAAUUC	4144	GAUUCUA GCCGAAAGCGAGUGAGGUCU CGAUACGU	19452
6009	AGAAUCC G UCGCAAGU	4145	ACUUGCGA GCCGAAAGCGAGUGAGGUCU GGAUUCU	19453
6012	AUCCGUC G CAAGUUGG	4146	CCAACUUG GCCGAAAGCGAGUGAGGUCU GACGGAUU	19454
6016	CGUGCAA G UUGUGAU	4147	AUCACCAA GCCGAAAGCGAGUGAGGUCU UUGCGACG	19455
6020	GCAAGUUG G UGAUGAGU	4148	ACUCAUCA GCCGAAAGCGAGUGAGGUCU CACUUGC	19456
6027	GGUGAUGA G UACUGUUA	4149	UACACAGUA GCCGAAAGCGAGUGAGGUCU UCAUCACC	19457
6032	UGAGUACU G UUAUGGG	4150	CCCCAUA GCCGAAAGCGAGUGAGGUCU AGUACUCA	19458
6042	UAUGGGG G CACACGAA	4151	UUCGUGUG GCCGAAAGCGAGUGAGGUCU CCCCACUA	19459
6070	CGAACUUC G CCAUUGG	4152	CCAUUGGG GCCGAAAGCGAGUGAGGUCU GAAGUUCG	19460
6085	GGACUGAG G CACGAUUC	4153	GAUUCGUG GCCGAAAGCGAGUGAGGUCU CUCAGUCC	19461
6096	CGAAUCAU G CUGGACAA	4154	UUGUCACG GCCGAAAGCGAGUGAGGUCU AUGAUUCG	19462
6114	AUCAACAU G CCAACCG	4155	CCGUTUGG GCCGAAAGCGAGUGAGGUCU AUGTUGAU	19463
6130	GACUGAUC G CUCAAUUC	4156	GAUUGAG GCCGAAAGCGAGUGAGGUCU GAUCAGUC	19464
6150	CACACAGA G CUGAGNA	4157	UUCUCACG GCCGAAAGCGAGUGAGGUCU UCUGGUUG	19465
6152	ACCAGAGC G UGAGAAGG	4158	CCUUCUCA GCCGAAAGCGAGUGAGGUCU GCTUCUGU	19466
6160	GUGAGAAG G UAUUAUCC	4159	GGUAUAUA GCCGAAAGCGAGUGAGGUCU CUUCUCAC	19467
6186	GAUACCG G CUCAGAGG	4160	CCUCUGAG GCCGAAAGCGAGUGAGGUCU CGGUAUUC	19468
6222	CUGGAACU G UUGAGGAC	4161	GUCCUCA GCCGAAAGCGAGUGAGGUCU AGUCCAG	19469
6232	UGAGGACU G CAGAUCUG	4162	CAGAUCUG GCCGAAAGCGAGUGAGGUCU AGUCCUCA	19470
6240	GCAGAUUC G CCAGUUG	4163	CAACUCUG GCCGAAAGCGAGUGAGGUCU AGAUCUGC	19471
6244	AUCUGCCA G UUGGCTUG	4164	CAGCCAAA GCCGAAAGCGAGUGAGGUCU UGGCAGAU	19472
6249	CCAGUUUG G CUGGCUUA	4165	UAAGCCAG GCCGAAAGCGAGUGAGGUCU CAAACUGG	19473
6253	UUUGGUG G CUUACACG	4166	CUUGUAAG GCCGAAAGCGAGUGAGGUCU CAGCCAAA	19474
6262	CUUACAAG G UUGCAGCG	4167	CGCUGCAA GCCGAAAGCGAGUGAGGUCU CUUGUAAG	19475
6265	ACAAGGUU G CAGCGGCU	4168	AGCGCGUG GCCGAAAGCGAGUGAGGUCU AACCUUGU	19476
6268	AGGUUGCA G CGGCUGGA	4169	UCCAGCCG GCCGAAAGCGAGUGAGGUCU UGCAACCU	19477
6271	UUGCAGCG G CUGGAGUG	4170	CACUCCAG GCCGAAAGCGAGUGAGGUCU CGCUGCAA	19478
6277	CGGCTUGA G UGUCAUAC	4171	GUAGACA GCCGAAAGCGAGUGAGGUCU UCCAGCCG	19479
6279	GCUGGAGU G UCAUACCA	4172	UGUAUGA GCCGAAAGCGAGUGAGGUCU ACUCCAGC	19480
6297	GACCGAG G UGGUGCUU	4173	AAGCACCA GCCGAAAGCGAGUGAGGUCU CUCCGGUC	19481
6300	CGGAGGUG G UGUUUGA	4174	UCAAGCA GCCGAAAGCGAGUGAGGUCU CACCUCG	19482
6302	GAGGUGGU G CUUUGAUG	4175	CAUCAAG GCCGAAAGCGAGUGAGGUCU ACCACCU	19483
6311	CUUUGAUG G UCCUAGGA	4176	UCCUAGGA GCCGAAAGCGAGUGAGGUCU CAUCAAG	19484
6349	ACAACGAA G UGGAAGUC	4177	GACUCCA GCCGAAAGCGAGUGAGGUCU UUCGUUGU	19485

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6355	AAGUGGAA G UCAUCACG	4178	CGUGAUGA GCCGAAAGCGAGUGAGGUCU UUCACAUU	19486
6366	AUCACGAA G CUUGGUGA	4179	UCACCAAG GCCGAAAGCGAGUGAGGUCU UUCGUGAU	19487
6371	GAAGCUG G UGAAAGGA	4180	UCCUUA CA GCCGAAAGCGAGUGAGGUCU CAAGCUUC	19488
6390	AUCUGAG G CGCGCUG	4181	CAGCGCGG GCCGAAAGCGAGUGAGGUCU CUCAGAAU	19489
6393	UCGAGGCC G CGCUGGAU	4182	AUCCAGCG GCCGAAAGCGAGUGAGGUCU GGCCTUCAG	19490
6395	GAGGCCG G CUGGAUUG	4183	CAAUCCAG GCCGAAAGCGAGUGAGGUCU GCGGCCUC	19491
6406	GAUUGAC G CCAGGGUG	4184	CACCCUGG GCCGAAAGCGAGUGAGGUCU GUCAAUCC	19492
6412	ACGCCAGG G UGUACUCG	4185	CGAGUACA GCCGAAAGCGAGUGAGGUCU CCUGGCGU	19493
6414	GCCAGGGU G UACUCGGA	4186	UCCGAGUA GCCGAAAGCGAGUGAGGUCU ACCCUGGC	19494
6430	AUCACCCAG G CACUAAAG	4187	CUUAGUG GCCGAAAGCGAGUGAGGUCU CUGGUGAU	19495
6439	CACUAAAG G CGUUCAG	4188	CUUGAACG GCCGAAAGCGAGUGAGGUCU CUUUGUG	19496
6441	CUAAAGGC G UUCAAGGA	4189	UCCUUGAA GCCGAAAGCGAGUGAGGUCU GCCUUUAG	19497
6454	AGGACUUC G CCUCGGGA	4190	UCCCGAGG GCCGAAAGCGAGUGAGGUCU GAAAGUCCU	19498
6457	GGGAAAC G UUCUCAGA	4191	UCUGAGAA GCCGAAAGCGAGUGAGGUCU GUUUUCCC	19499
6480	CAGUAGG G CUCAUUGA	4192	UCAUUGAG GCCGAAAGCGAGUGAGGUCU CCUAUCUG	19500
6490	UCAUUGAG G UUCUGGGA	4193	UCCAGAA GCCGAAAGCGAGUGAGGUCU CUCUAUGA	19501
6504	GGAAAGAU G CCUGAGCA	4194	UGCUCAGG GCCGAAAGCGAGUGAGGUCU AUCUUUCC	19502
6510	AUGCCUGA G CACUUCAU	4195	AUGAAGUG GCCGAAAGCGAGUGAGGUCU UCAGGCAU	19503
6535	CAUGGGA G CACUUGAC	4196	GUCAAGUG GCCGAAAGCGAGUGAGGUCU UUCCCAUG	19504
6549	GACACCAU G UACGUUGU	4197	ACAAAGUA GCCGAAAGCGAGUGAGGUCU AUGGUGUC	19505
6553	CCAUGUAC G UUGUGGCC	4198	GGCCACAA GCCGAAAGCGAGUGAGGUCU GUACAUGG	19506
6556	UGUACGUU G UGGCCACU	4199	AGUGGCCA GCCGAAAGCGAGUGAGGUCU AACGUACA	19507
6559	ACGUUGUG G CCACUGCA	4200	UGCAGUGG GCCGAAAGCGAGUGAGGUCU CACAACGU	19508
6565	UGGCCACU G CAGAGAAA	4201	UUUCUCUG GCCGAAAGCGAGUGAGGUCU AGUGGCCA	19509
6583	GAGGAAGA G CUCACAGA	4202	UCUGUGAG GCCGAAAGCGAGUGAGGUCU UCUCUCCU	19510
6595	ACAGAAUG G CCUCGGAG	4203	CUCCAGGG GCCGAAAGCGAGUGAGGUCU CADUCUGU	19511
6609	GAGGAACU G CCAGAUGC	4204	GCAUCUGG GCCGAAAGCGAGUGAGGUCU AGUUCUCC	19512
6616	UGCCAGAU G CUCUUCAG	4205	CUGARAGG GCCGAAAGCGAGUGAGGUCU AUCUGGCA	19513
6631	AGACAAUU G CCUUGAUU	4206	AAUCAAGG GCCGAAAGCGAGUGAGGUCU AAUUGUCU	19514
6640	CCUUGAUU G CCUUAUUG	4207	CAAUAAAG GCCGAAAGCGAGUGAGGUCU AAUCAAGG	19515
6650	CUUAUGA G UGUGAUGA	4208	UCAUCACA GCCGAAAGCGAGUGAGGUCU UCAUAUAG	19516
6652	UAUUGAGU G UGAUGACC	4209	GGUACAUA GCCGAAAGCGAGUGAGGUCU ACUCAUAU	19517
6667	CCAUGGGA G UAUUCUUC	4210	GAGAUAUA GCCGAAAGCGAGUGAGGUCU UCCCAUGG	19518
6684	CUCUCAU G CAGCGGAA	4211	UUCGCGUG GCCGAAAGCGAGUGAGGUCU AUGAGGAG	19519
6687	CUCAUGCA G CGGAAGGG	4212	CCCUUCCG GCCGAAAGCGAGUGAGGUCU UGCAUGAG	19520
6695	GCGGAAGG G CAUUGGNA	4213	UUCCAUUG GCCGAAAGCGAGUGAGGUCU CCUUCCGC	19521
6710	AAAGAUAG G UUUGGGAG	4214	CUCCCAA GCCGAAAGCGAGUGAGGUCU CUAUCUUA	19522
6719	UUUGGGAG G CGCUGUCU	4215	AGACAGCG GCCGAAAGCGAGUGAGGUCU CUCCCAA	19523
6721	UGGGAGGC G CUGUCUUG	4216	CAAGACAG GCCGAAAGCGAGUGAGGUCU GCCUCCCA	19524
6724	GAGGCGCU G UCUUGGGA	4217	UCCCAAGA GCCGAAAGCGAGUGAGGUCU AGCGCCUC	19525

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6733	UCUUGGA G UCGCGACC	4218	GGUCGCGA GCCGAAAGGCGAGUGAGGUCU UCCCAAGA	19526
6736	UGGAGUC G CGACCUUU	4219	AAAGGUCG GCCGAAAGGCGAGUGAGGUCU GACUCCCA	19527
6749	CUUUUUU G UUGGAUGG	4220	CCAUCCAA GCCGAAAGGCGAGUGAGGUCU AGAAAAAG	19528
6757	GUUGAUG G CUGAAGUU	4221	AACUUCAG GCCGAAAGGCGAGUGAGGUCU CAUCCAAC	19529
6763	UGGCUAA G UUCGAGGA	4222	UCCUGGAA GCCGAAAGGCGAGUGAGGUCU UUCAGCCA	19530
6781	CGAAGUC G CCGGAUG	4223	CAUUCGG GCCGAAAGGCGAGUGAGGUCU GAUCUUUG	19531
6789	GCCGGAU G UUGCUGU	4224	AGCAGCAA GCCGAAAGGCGAGUGAGGUCU AUUCCGGC	19532
6792	GGAAUGU G CUGCUCU	4225	GAGAGCAG GCCGAAAGGCGAGUGAGGUCU AACAUUCC	19533
6795	AUGUUGU G CUCUCCU	4226	AGGAGAG GCCGAAAGGCGAGUGAGGUCU AGCAACAU	19534
6817	UGAUAUU G UGCUAAUU	4227	AUUUAGCA GCCGAAAGGCGAGUGAGGUCU AAUCAUCA	19535
6819	AUGAUUU G CUAAUUC	4228	GGAUUUAG GCCGAAAGGCGAGUGAGGUCU ACAAUCAU	19536
6831	AUUCUGA G CCAGAGAA	4229	UUCUCUGG GCCGAAAGGCGAGUGAGGUCU UCAGGAUU	19537
6840	CCAGAGAA G CAACGUUC	4230	GAACGUGG GCCGAAAGGCGAGUGAGGUCU UUCUCUGG	19538
6845	GAAGCAAC G UUGGCAGA	4231	UCUGCGAA GCCGAAAGGCGAGUGAGGUCU GUUUCUUC	19539
6849	CACGUUC G CAGACAGA	4232	UCUGUCUG GCCGAAAGGCGAGUGAGGUCU GAACGUUG	19540
6864	GACAAAC G CUAGCGU	4233	ACGGCUAG GCCGAAAGGCGAGUGAGGUCU UGGUUGUC	19541
6868	ACCAGUA G CCGUGUUC	4234	GAACACGG GCCGAAAGGCGAGUGAGGUCU UAGCUGGU	19542
6871	AGCUAGC G UGUUCCU	4235	CAGGAACA GCCGAAAGGCGAGUGAGGUCU GGCUAGCU	19543
6873	CUAGCCU G UUCUUAU	4236	AUCAGGAA GCCGAAAGGCGAGUGAGGUCU ACGGCUAG	19544
6884	CCUGAUU G UGUCAUGA	4237	UCAUGACA GCCGAAAGGCGAGUGAGGUCU AAUUCAGG	19545
6886	UGAUUUU G UCAUGACC	4238	GGUCAUGA GCCGAAAGGCGAGUGAGGUCU ACAAAUCA	19546
6898	UGACCCU G UGAGCGCA	4239	UGCGCUCA GCCGAAAGGCGAGUGAGGUCU AAGGGUCA	19547
6902	CCUUGUA G CGCAGUGG	4240	CCACUUGG GCCGAAAGGCGAGUGAGGUCU UCACAAGG	19548
6904	UUGUAGC G CAGUGGCA	4241	UGCCACUG GCCGAAAGGCGAGUGAGGUCU GCUACACAA	19549
6907	UGAGGCA G UGGCAGCC	4242	GGCUGCCA GCCGAAAGGCGAGUGAGGUCU UGCUCUCA	19550
6910	GCGCAGU G CAGCCAAC	4243	GUUGGCUG GCCGAAAGGCGAGUGAGGUCU CACUGCGC	19551
6913	CAGUGCA G CCAACGAG	4244	CUUGUUGG GCCGAAAGGCGAGUGAGGUCU UGCCACUG	19552
6926	CGAGUUG G UUGGCUAG	4245	CUAGCCAA GCCGAAAGGCGAGUGAGGUCU CCAUCUCG	19553
6930	AUGGUUG G CUAGAUAA	4246	UUUUCUAG GCCGAAAGGCGAGUGAGGUCU CAACCCAU	19554
6947	GACCAAGA G UGACAUAA	4247	UUUUGUCA GCCGAAAGGCGAGUGAGGUCU UCUUGGUC	19555
6956	UGACAUAA G CAGUUUGU	4248	ACAAACUG GCCGAAAGGCGAGUGAGGUCU UUAUGUCA	19556
6959	CAUAAGCA G UUUUUUUG	4249	CAAAACAA GCCGAAAGGCGAGUGAGGUCU UGCUUAUG	19557
6963	AGCAGUU G UUUUGGCA	4250	UGCCCAA GCCGAAAGGCGAGUGAGGUCU AAACUGCU	19558
6969	UUGUUUG G CAAAGAAU	4251	AUUCUUUG GCCGAAAGGCGAGUGAGGUCU CCAAAACAA	19559
6982	GAUUUGA G UCAAGGAG	4252	CUCCUUGA GCCGAAAGGCGAGUGAGGUCU CUCAAUUC	19560
6998	GAUUUUA G CAUGGGAG	4253	CUCCCAUG GCCGAAAGGCGAGUGAGGUCU UGAAAUUC	19561
7008	AUGGAGA G UUUUUUUU	4254	AAAAGAAA GCCGAAAGGCGAGUGAGGUCU UCUCCCAU	19562
7026	GACUUGA G CCGGCAAC	4255	GUUGCCGG GCCGAAAGGCGAGUGAGGUCU CUCAAAGUC	19563
7030	UGAGGCG G CAACAGCC	4256	GGUUGUUG GCCGAAAGGCGAGUGAGGUCU CGGCCUCA	19564
7036	CGGCAACA G CCUGGUCA	4257	UGACCAGG GCCGAAAGGCGAGUGAGGUCU UGUUGCCG	19565

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7041	ACAGCCUG G UCACUGUA	4258	UACAGUGA GCCGAAAGGCGAGUGAGGUCU CAGGUCUGU	19566
7047	UGGUCACU G UACGCUU	4259	ACAGCGUA GCCGAAAGGCGAGUGAGGUCU AGUGACCA	19567
7051	CACUGUAC G CUGUGACA	4260	UGUCACAG GCCGAAAGGCGAGUGAGGUCU GUACAGUG	19568
7054	UGUACGCU G UGACAAAC	4261	UGUUGUCA GCCGAAAGGCGAGUGAGGUCU AGCGUACA	19569
7063	UGACAACA G CGGUCCUC	4262	GAGGACCG GCCGAAAGGCGAGUGAGGUCU UGUUGUCA	19570
7066	CAACAGCG G UCCUACU	4263	AGUGAGGA GCCGAAAGGCGAGUGAGGUCU CGCUGUUG	19571
7080	ACUCCACU G CUAAAGCA	4264	UGCUUUG GCCGAAAGGCGAGUGAGGUCU AGUGAGU	19572
7086	CUGCUAAA G CAUUGAU	4265	AUCAAAUG GCCGAAAGGCGAGUGAGGUCU UUUAGCAG	19573
7098	UUGAUCAC G UCAGAUUA	4266	UAAUCUGA GCCGAAAGGCGAGUGAGGUCU GUGAUCAA	19574
7135	CAAUAAAC G UUCAGGCA	4267	UGCCUGAA GCCGAAAGGCGAGUGAGGUCU GUUUAUUG	19575
7141	ACGUUCAG G CAAGUGCA	4268	UGCACUUG GCCGAAAGGCGAGUGAGGUCU CUGAACGU	19576
7145	UCAGGCAA G UGCACUUA	4269	AUAGUGCA GCCGAAAGGCGAGUGAGGUCU UUGCCUGA	19577
7147	AGGCAAGU G CACUAUUC	4270	GAUAUGUG GCCGAAAGGCGAGUGAGGUCU ACTUGCCU	19578
7162	UCACACUC G CGCGAGGC	4271	GCCUCGCG GCCGAAAGGCGAGUGAGGUCU GAGUGUGA	19579
7164	ACACUCGC G CGAGGCUU	4272	AAGCCUCG GCCGAAAGGCGAGUGAGGUCU GCGAGUGU	19580
7169	CGGCGGAG G CUUCCCUU	4273	AGGGGAAG GCCGAAAGGCGAGUGAGGUCU CUCGCGCG	19581
7180	UCCCUUUC G UCAGUUGU	4274	AACAUCGA GCCGAAAGGCGAGUGAGGUCU GAAGGGGA	19582
7186	UGUUCGAU G UUGAGUG	4275	CACUCCAA GCCGAAAGGCGAGUGAGGUCU AUCGACGA	19583
7192	AUGUUGGA G UGCGGCUU	4276	AGCCGACA GCCGAAAGGCGAGUGAGGUCU UCCAACAU	19584
7194	GUUGGAGU G UUGGCUU	4277	AGAGCCGA GCCGAAAGGCGAGUGAGGUCU ACUCCAAC	19585
7198	GUUGGUCG G CUUCCUUG	4278	CAGGAGAG GCCGAAAGGCGAGUGAGGUCU CGACACUC	19586
7206	GCUCUCCU G CUAGCAGC	4279	GUGUCUAG GCCGAAAGGCGAGUGAGGUCU AGGAGAGC	19587
7210	UCCUGCUA G CAGCCGGA	4280	UCCGCGUG GCCGAAAGGCGAGUGAGGUCU VAGCAGGA	19588
7213	UGCUAGCA G CCGGAUGC	4281	GCAUCCGG GCCGAAAGGCGAGUGAGGUCU UGCUAGCA	19589
7220	AGCCGGAU G CUGGGGAC	4282	GUCCCCAG GCCGAAAGGCGAGUGAGGUCU AUCCGGCU	19590
7231	GGGACAA G UCACCCUC	4283	GAGGGUGA GCCGAAAGGCGAGUGAGGUCU UUGUCCCC	19591
7243	CCUCACCC G UUACGGUA	4284	UACCGUAA GCCGAAAGGCGAGUGAGGUCU GGUGAGGG	19592
7249	CCGUUACG G UACACAGC	4285	CGCUGUUA GCCGAAAGGCGAGUGAGGUCU CGUAACGG	19593
7255	CGGUACA G CGGCAACA	4286	UGUUGCCG GCCGAAAGGCGAGUGAGGUCU UGUUACCG	19594
7258	UACAGCG G CAACACUC	4287	GAGUGUUG GCCGAAAGGCGAGUGAGGUCU CGTUGUUA	19595
7274	CUUUUUU G CCACUAUG	4288	CAUAGUGG GCCGAAAGGCGAGUGAGGUCU AAAAAAGG	19596
7282	GCCACUAU G CCUACAUG	4289	CAUGUAGG GCCGAAAGGCGAGUGAGGUCU AUAGUGGC	19597
7291	CCUACAUG G UUCCCGGU	4290	ACCGGGAA GCCGAAAGGCGAGUGAGGUCU CAUGUAGG	19598
7298	GUUUCGCG G UUGGCAAG	4291	CUUGCCAA GCCGAAAGGCGAGUGAGGUCU CGGGAACC	19599
7302	CCGGUUG G CAAGCUGA	4292	UCAGCUUG GCCGAAAGGCGAGUGAGGUCU CAACCGGG	19600
7306	GUUGGCAJ G CUGAGGCA	4293	UGCCUCAG GCCGAAAGGCGAGUGAGGUCU UUGCCAAC	19601
7312	AAGCUGAG G CAUUGCGC	4294	GCGCAUUG GCCGAAAGGCGAGUGAGGUCU CUCAGCUU	19602
7317	GAGGCAAU G CGUCACGC	4295	CGUGAGCG GCCGAAAGGCGAGUGAGGUCU AUUGCCUC	19603
7319	GGCAUAGC G CUCAGCCC	4296	GGCUGAG GCCGAAAGGCGAGUGAGGUCU GCAUUGCC	19604
7324	UGCGCUCA G CCCAGCGG	4297	CCGUCGGG GCCGAAAGGCGAGUGAGGUCU UGAGCGCA	19605

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7329	UCAGCCCA G CGGCGGAC	4298	GUCGCGCG GCCGAAAGGCGAGUGAGGUCU UGGGCUGA	19606
7332	GCCAGCG G CGGACAGC	4299	GCUGUCCG GCCGAAAGGCGAGUGAGGUCU CGCUGGGC	19607
7339	GGCGGACA G CGGCGGA	4300	UCCGCGCG GCCGAAAGGCGAGUGAGGUCU UGUCGCGC	19608
7342	GGCAGCG G CCGGAUC	4301	GAUUCGG GCCGAAAGGCGAGUGAGGUCU CGCUGUCC	19609
7360	UGAAGAAC G CUGUAGUG	4302	CACUACAG GCCGAAAGGCGAGUGAGGUCU GUUCUUCA	19610
7363	AGAAGCGU G UAGUGGAU	4303	AUCCACUA GCCGAAAGGCGAGUGAGGUCU AGCGUUCU	19611
7366	ACGCGUGA G UGGAUUGC	4304	GCCAUCCA GCCGAAAGGCGAGUGAGGUCU UACAGCGU	19612
7373	AGUGGAUG G CAUCGUGG	4305	CCACGAUG GCCGAAAGGCGAGUGAGGUCU CAUCCACU	19613
7378	AUGGCAUC G UGGCCACG	4306	CGUGGCCA GCCGAAAGGCGAGUGAGGUCU GAUGCCAU	19614
7381	GCAUCGUG G CCACGGAC	4307	GUCGCGUG GCCGAAAGGCGAGUGAGGUCU CACGAUGC	19615
7390	CCACGGAC G UCCGAGAA	4308	UUCUGGGA GCCGAAAGGCGAGUGAGGUCU GUCCGUGG	19616
7404	GAUUAAGA G CGCACAC	4309	GUGGUGCG GCCGAAAGGCGAGUGAGGUCU UCUAUUUC	19617
7406	AUAAGAGC G CACCACAC	4310	GUGUGGUG GCCGAAAGGCGAGUGAGGUCU GCUCUAAU	19618
7422	CCCAUCAU G CAGAAGAA	4311	UUCUUUG GCCGAAAGGCGAGUGAGGUCU AUGAUGGG	19619
7432	AGAAGAAA G UUGACAG	4312	CUGUCCAA GCCGAAAGGCGAGUGAGGUCU UUUUUUCU	19620
7446	CAGAUAU G CUGAUCUU	4313	AAGAUCAG GCCGAAAGGCGAGUGAGGUCU AUGAUCUG	19621
7456	UGAUCUUG G UGUCUCUA	4314	UAGAGACA GCCGAAAGGCGAGUGAGGUCU CAAGAUA	19622
7458	AUCUUGGU G UCUCUAGC	4315	GCUAAGAA GCCGAAAGGCGAGUGAGGUCU ACCAAGAU	19623
7465	UGUCUCUA G CUGCAGUA	4316	UACUGCAG GCCGAAAGGCGAGUGAGGUCU UAGAGACA	19624
7468	CUCUAGCU G CAGUAGUA	4317	UACUACUG GCCGAAAGGCGAGUGAGGUCU AGCUAGAG	19625
7471	UAGCUGCA G UAGUAGUG	4318	CACUACUA GCCGAAAGGCGAGUGAGGUCU UGCAGCUA	19626
7474	CUGCAGUA G UAGUAGAC	4319	GUUCACUA GCCGAAAGGCGAGUGAGGUCU UACUGCAG	19627
7477	CAGUAGUA G UGAACCCG	4320	CGGCUUCA GCCGAAAGGCGAGUGAGGUCU UACUACUG	19628
7485	GUGAACCC G UCUGUGAA	4321	UUCACAGA GCCGAAAGGCGAGUGAGGUCU GGUUUCAC	19629
7489	ACCCGUCU G UGAAGACA	4322	UGUCUUCA GCCGAAAGGCGAGUGAGGUCU AGACGGGU	19630
7498	UGAAGACA G UACGAGAA	4323	UUCUCGUA GCCGAAAGGCGAGUGAGGUCU UGUCUUCA	19631
7507	UACGAGAA G CCGGAUUU	4324	AAUUCGG GCCGAAAGGCGAGUGAGGUCU UUCUCGUA	19632
7525	UGAUCACG G CGGCACG	4325	CGCUGCGG GCCGAAAGGCGAGUGAGGUCU CGUGAUCA	19633
7528	UCACGGCC G CAGCGGUG	4326	CACGCGUG GCCGAAAGGCGAGUGAGGUCU GGCCCGUGA	19634
7531	CGGCCGCA G CGUGACG	4327	CGUCACCG GCCGAAAGGCGAGUGAGGUCU UGCGGCGG	19635
7534	CCGACGCG G UGACGCUU	4328	AAGCGUCA GCCGAAAGGCGAGUGAGGUCU CGCUGCGG	19636
7539	GCGGUGAC G CUUUGGGA	4329	UCCCAAAG GCCGAAAGGCGAGUGAGGUCU GUCACCGC	19637
7555	AGAUGGA G CAAGUCUU	4330	AGAGCUUG GCCGAAAGGCGAGUGAGGUCU UCCAUUCU	19638
7559	UGGAGCAA G CUCUGUUU	4331	AAACAGAG GCCGAAAGGCGAGUGAGGUCU UUGCUCCA	19639
7564	CAAGUCUU G UUUUGAAC	4332	GUUCCAAA GCCGAAAGGCGAGUGAGGUCU AGAGCUUG	19640
7573	UUUGGAAC G CAACACU	4333	AGUUGUUG GCCGAAAGGCGAGUGAGGUCU GUUCCAAA	19641
7582	CAACAACU G CCAUCGGA	4334	UCCGAUGG GCCGAAAGGCGAGUGAGGUCU AGUUGUUG	19642
7595	CGGACUCU G CCACAUA	4335	UGAUGUGG GCCGAAAGGCGAGUGAGGUCU AGAGUCCG	19643
7605	CACAUAU G CGUGGGGG	4336	CCCCACG GCCGAAAGGCGAGUGAGGUCU AUGAUGUG	19644
7607	CAUCAUG G UGGGGUUU	4337	AACCCCA GCCGAAAGGCGAGUGAGGUCU GCAUGAUG	19645

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7613	GGGUGGG G	UGGUUGU	4338	ACAACCA	GCCGAAAGCGAGUGAGGUCU	CCCCAGC	19646
7617	GGGGUUG G	UUGUCAUG	4339	CAUGACAA	GCCGAAAGCGAGUGAGGUCU	CAACCCCC	19647
7620	GGUUGGU G	UCAUGUCU	4340	AGACAUGA	GCCGAAAGCGAGUGAGGUCU	AACCAACC	19648
7625	GUUGUCAU G	UCUAUCCA	4341	UGGAUAGA	GCCGAAAGCGAGUGAGGUCU	AUGACAAC	19649
7682	AAAAAGAG G	UGGGGCAA	4342	UUGCCCCA	GCCGAAAGCGAGUGAGGUCU	CUCUUUUU	19650
7687	GAGGUGGG G	CAAAAGGA	4343	UCCUUUUG	GCCGAAAGCGAGUGAGGUCU	CCCAGCUC	19651
7697	AAAGGAC G	CACCUUGG	4344	CCAAGGUG	GCCGAAAGCGAGUGAGGUCU	GUCCUUUU	19652
7711	UGGGAGAG G	UUUGGAAA	4345	UUUCCAAA	GCCGAAAGCGAGUGAGGUCU	CUCUCCCA	19653
7749	AAAGAAGA G	UUCACUAG	4346	CUAGUGAA	GCCGAAAGCGAGUGAGGUCU	UCUUCUUU	19654
7758	UUCACUAG G	UACCGCAA	4347	UUGCGGUA	GCCGAAAGCGAGUGAGGUCU	CUAGUGAA	19655
7763	UAGGUACC G	CAAAAGAG	4348	CCUCUUUG	GCCGAAAGCGAGUGAGGUCU	GGUACCUA	19656
7771	GCAAAGAG G	CCAUCAUC	4349	GAUGAUGG	GCCGAAAGCGAGUGAGGUCU	CUCUUUGC	19657
7783	UCAUCGAA G	UCGAUCGC	4350	GCGAUCGA	GCCGAAAGCGAGUGAGGUCU	UUCGAUGA	19658
7790	AGUCGAUC G	CUCAGCGG	4351	CCGCUGAG	GCCGAAAGCGAGUGAGGUCU	GAUCGACU	19659
7795	AUGGCUCA G	CGGCAAAA	4352	UUUUGCCG	GCCGAAAGCGAGUGAGGUCU	UGAGCGAU	19660
7798	GCUCAGCG G	CAAAACAC	4353	GUGUUUUG	GCCGAAAGCGAGUGAGGUCU	CGCUGAGC	19661
7807	CAAAACAC G	CCAGGAAA	4354	UUUCCUGG	GCCGAAAGCGAGUGAGGUCU	GUGUUUUG	19662
7820	GAAAGAAG G	CAUUGUCA	4355	UGACAUUG	GCCGAAAGCGAGUGAGGUCU	CUUCUUUC	19663
7825	AAGGCAU G	UCACUGGA	4356	UCCAGUGA	GCCGAAAGCGAGUGAGGUCU	AUUGCCUU	19664
7836	ACUGGAGG G	CAUCCAGU	4357	ACUGGAUG	GCCGAAAGCGAGUGAGGUCU	CTUCCAGU	19665
7843	GGCAUCCA G	UUCUUAAG	4358	CUUAGAGA	GCCGAAAGCGAGUGAGGUCU	UGGAUGCC	19666
7853	CUCUAGGG G	CACAGCAA	4359	UUGCUGUG	GCCGAAAGCGAGUGAGGUCU	CCCUAGAG	19667
7858	GGGGCACA G	CAAAACUG	4360	CAGUUUUG	GCCGAAAGCGAGUGAGGUCU	UGUGCCCC	19668
7872	CUGAGAUG G	CUGGUCGA	4361	UGGACCCAG	GCCGAAAGCGAGUGAGGUCU	CAUCUCAG	19669
7876	GAUGGCUG G	UCGAACCG	4362	CCGUUCGA	GCCGAAAGCGAGUGAGGUCU	CAGCCAUC	19670
7887	GAAACGGAG G	UUUCUCGA	4363	UCGAGAAA	GCCGAAAGCGAGUGAGGUCU	CUCCGUUC	19671
7900	UCGAACCG G	UCGGAAAA	4364	UUUUCGGA	GCCGAAAGCGAGUGAGGUCU	CGGUUCGA	19672
7909	UCGGAAAA G	UGAUUGAC	4365	GUCAUCCA	GCCGAAAGCGAGUGAGGUCU	UUUUCGGA	19673
7925	CCUUGGAU G	UGGAGAG	4366	CUCUUCGA	GCCGAAAGCGAGUGAGGUCU	AUCCAAGG	19674
7934	UGGAAGAG G	CGGUUGGU	4367	ACCAACCG	GCCGAAAGCGAGUGAGGUCU	CUCUUCGA	19675
7937	AAGAGGCG G	UUGGUUGU	4368	AACACCAA	GCCGAAAGCGAGUGAGGUCU	CGCCUCUU	19676
7941	GGCGGUUG G	UGUUUACU	4369	UAGUAACA	GCCGAAAGCGAGUGAGGUCU	CAACCGCC	19677
7943	CGGUUGGU G	UUAUAUA	4370	UAUAGUAA	GCCGAAAGCGAGUGAGGUCU	ACCAACCG	19678
7954	ACUAUAUG G	CAACCCAA	4371	UUGGGUUG	GCCGAAAGCGAGUGAGGUCU	CAUAUAGU	19679
7969	AAAAAGA G	UCCAAGAA	4372	UUCUUGGA	GCCGAAAGCGAGUGAGGUCU	UCUUUUUU	19680
7978	UCCAAGAA G	UCAGAGGG	4373	CCCUUGA	GCCGAAAGCGAGUGAGGUCU	UUCUUGGA	19681
7986	GUCAGAGG G	UACACAAA	4374	UUUGUGUA	GCCGAAAGCGAGUGAGGUCU	CCUCUGAC	19682
7997	CACAAGG G	CGGUCCCC	4375	CGGGACCG	GCCGAAAGCGAGUGAGGUCU	CCUUDUG	19683
8000	AAAGGGCG G	UCCCGGAC	4376	GUCCGGGA	GCCGAAAGCGAGUGAGGUCU	CGCCUUUU	19684
8016	CAUGAAGA G	CCCCAACU	4377	AGUUGGGG	GCCGAAAGCGAGUGAGGUCU	UCUUCUAG	19685

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8026	CCCAACUA G UGCAAGU	4378	ACUUUGCA GCCGAAAGGCGAGUGAGGUCU UAGUUGGG	19686
8028	CAACUAGU G CAAAGUDA	4379	UAACUUTG GCCGAAAGGCGAGUGAGGUCU ACUAGUUG	19687
8033	AGUGCAAA G UUAUGGAU	4380	AUCCAUA GCCGAAAGGCGAGUGAGGUCU UUUGCACU	19688
8050	GGAAACAU G UACCAUG	4381	CAUGGUA GCCGAAAGGCGAGUGAGGUCU AAUGUUC	19689
8063	CAUGAAGA G UGAGUGG	4382	CCACUCCA GCCGAAAGGCGAGUGAGGUCU UCUCUAUG	19690
8068	AGAGUGGA G UGAUGUG	4383	CACAUCA GCCGAAAGGCGAGUGAGGUCU UCCACUCU	19691
8074	GAGUGGAU G UGUUCUAC	4384	GUAGAACA GCCGAAAGGCGAGUGAGGUCU AUCCACUC	19692
8076	GUGGAUGU G UUCUACAG	4385	CUGUAGAA GCCGAAAGGCGAGUGAGGUCU ACAUCCAC	19693
8094	CCUUCUGA G UGUUGUGA	4386	UCACAACA GCCGAAAGGCGAGUGAGGUCU UCAGAAGG	19694
8096	UUCUGAGU G UUGUGACA	4387	UGUCACAA GCCGAAAGGCGAGUGAGGUCU ACUCAGAA	19695
8099	UGAGUGUU G UGACACCC	4388	GGGUGUCA GCCGAAAGGCGAGUGAGGUCU AACACUCA	19696
8114	CCUCCUUU G UGACAUCG	4389	CGAUGUCA GCCGAAAGGCGAGUGAGGUCU AAAGGAGG	19697
8127	AUGGGAGA G UCCUCGUC	4390	GACGAGGA GCCGAAAGGCGAGUGAGGUCU UCUCGGAU	19698
8133	GAGUCCUC G UCAAGUGC	4391	GCACUUGA GCCGAAAGGCGAGUGAGGUCU GAGGACUC	19699
8138	CUGUCAAA G UGCUGAGG	4392	CCUCAGCA GCCGAAAGGCGAGUGAGGUCU UTGACGAG	19700
8140	CGUCAAGU G CUGAGGUU	4393	AACCCUAG GCCGAAAGGCGAGUGAGGUCU ACUUGACG	19701
8146	GUGCUGAG G UUGAAGAG	4394	CUCUUCAA GCCGAAAGGCGAGUGAGGUCU CUCAGCAC	19702
8154	GUUGAAGA G CAUAGGAC	4395	GUCCUUG GCCGAAAGGCGAGUGAGGUCU UCUUCAAC	19703
8170	CGAUTCGG G UCCUUGAA	4396	UUCAAGGA GCCGAAAGGCGAGUGAGGUCU CCGAAUCG	19704
8182	UUGAAUUG G UUGAGGAC	4397	GUCCUCA GCCGAAAGGCGAGUGAGGUCU CAUUUCA	19705
8193	GAGGACUG G CUGCACC	4398	CGGUGCAG GCCGAAAGGCGAGUGAGGUCU CAGUCCUC	19706
8196	CACUGGCU G CACCGAGG	4399	CCUCGGUG GCCGAAAGGCGAGUGAGGUCU AGCCAGUC	19707
8205	CACCGAGG G CCAAGGGA	4400	UCCCUUGG GCCGAAAGGCGAGUGAGGUCU CCUCGGUG	19708
8219	GGAAUUTU G CGUGAAGG	4401	CCUUCACG GCCGAAAGGCGAGUGAGGUCU AAAAUUCC	19709
8221	AAUUTUUC G UGAAGGUG	4402	CACCUUCA GCCGAAAGGCGAGUGAGGUCU GCAAAUAU	19710
8227	GGGUGAAG G UGCUCUGC	4403	GCAGAGCA GCCGAAAGGCGAGUGAGGUCU CUUCAGGC	19711
8229	GUGAAGGU G CUCUGCCC	4404	GGGCAGAG GCCGAAAGGCGAGUGAGGUCU ACCUUCAC	19712
8234	GGUGUCUC G CCCUACA	4405	UGUAGGGG GCCGAAAGGCGAGUGAGGUCU AGAGCACC	19713
8244	CCCUACAU G CCGAAAGU	4406	ACUUUCGG GCCGAAAGGCGAGUGAGGUCU AUGUAGGG	19714
8251	UGCCGAAA G UCAUAGAG	4407	CUCUAUGA GCCGAAAGGCGAGUGAGGUCU UUUCGGCA	19715
8268	AAGAUGGA G CUGCUCCA	4408	UGGAGCAG GCCGAAAGGCGAGUGAGGUCU UCCAUCUU	19716
8271	AUGGAGCU G CUCCAACG	4409	CGUUGGAG GCCGAAAGGCGAGUGAGGUCU AGCUCUUA	19717
8279	GCUCCAAC G CCGUAUUG	4410	CAUACCGG GCCGAAAGGCGAGUGAGGUCU GUUGGAGC	19718
8283	CAACGCCG G UAUUGGGG	4411	CCCCCAUA GCCGAAAGGCGAGUGAGGUCU CGCGUUG	19719
8299	GGGACUG G UCAGAAAC	4412	GUUUCUGA GCCGAAAGGCGAGUGAGGUCU CAGUCCCC	19720
8328	AATUCCAC G CACGAGAU	4413	AUCUCGUG GCCGAAAGGCGAGUGAGGUCU GUGGAUUA	19721
8337	CACGAGAU G UAUUGGUG	4414	ACCCAUA GCCGAAAGGCGAGUGAGGUCU AUCUCGUG	19722
8344	UGUAUUGG G UGAGUCGA	4415	UCGACUCA GCCGAAAGGCGAGUGAGGUCU CCAUAACA	19723
8348	UUGGGUGA G UCGAGCUU	4416	AAGCUCGA GCCGAAAGGCGAGUGAGGUCU UCACCCAA	19724
8353	UGAGUCGA G CUUCAGGC	4417	GCCUGAAG GCCGAAAGGCGAGUGAGGUCU UCGACUCA	19725

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8360	AGCUUCAG G CAAUGUGG	4418	CCACAUUG GCCGAAAGCGAGUGAGGUCU CUGAAGCU	19726
8365	CAGCAAU G UGGUACAU	4419	AUGUACCA GCCGAAAGCGAGUGAGGUCU AUUGCCUG	19727
8368	GCAUUG G UACAUUA	4420	UGAAUGUA GCCGAAAGCGAGUGAGGUCU CACAUUGC	19728
8377	UACAUUA G UGAUAUG	4421	CAUAUUA GCCGAAAGCGAGUGAGGUCU UGAAUGUA	19729
8390	UAUGACCA G CCAGGUGC	4422	GCACUGG GCCGAAAGCGAGUGAGGUCU UGGUCAUA	19730
8395	CCAGCCAG G UGCUCUA	4423	UAGGAGCA GCCGAAAGCGAGUGAGGUCU CUGGCUGG	19731
8397	AGCCAGGU G CUCCUAGG	4424	CCUAGGAG GCCGAAAGCGAGUGAGGUCU ACCUGGCU	19732
8452	AGGAGAU G UAAACUUG	4425	CAAGUUA GCCGAAAGCGAGUGAGGUCU AUCUUCU	19733
8465	CUUGGAA G UGGAACCA	4426	UGGUUCCA GCCGAAAGCGAGUGAGGUCU UUCCCAAG	19734
8476	GAACGAG G CGGUGGGA	4427	UCCACCG GCCGAAAGCGAGUGAGGUCU CCUGGUUC	19735
8479	CCAGGCG G UGGGAAA	4428	UUUCCCCA GCCGAAAGCGAGUGAGGUCU CGCCUUGG	19736
8493	AAACCCU G CUCAACUC	4429	GAGUUGAG GCCGAAAGCGAGUGAGGUCU AGGGUUA	19737
8510	AGACACCA G UAAAAUCA	4430	UGAUUUA GCCGAAAGCGAGUGAGGUCU UGGUGUCU	19738
8541	CGACUCAG G CGUGAGUA	4431	UACUCACG GCCGAAAGCGAGUGAGGUCU CUGAGUCG	19739
8543	ACUCAGG G UGAGUACA	4432	UGUACUCA GCCGAAAGCGAGUGAGGUCU GCCUGAGU	19740
8547	AGGCGUGA G UACAGUUC	4433	GAACUGUA GCCGAAAGCGAGUGAGGUCU UCACGCCU	19741
8552	UGAGUACA G UUCGACGU	4434	ACGUUGAA GCCGAAAGCGAGUGAGGUCU UGUACUCA	19742
8559	AGUUCGAC G UGGCACCA	4435	UGGUGCCA GCCGAAAGCGAGUGAGGUCU GUCGAACU	19743
8562	UCGACGUG G CACCACGA	4436	UCGUGGUG GCCGAAAGCGAGUGAGGUCU CACGUCGA	19744
8606	CUAUCAG G CAGUUAUG	4437	CAUAAACUG GCCGAAAGCGAGUGAGGUCU CGUGAUAG	19745
8609	UACAGCA G UUAUGAUG	4438	CAUCAUA GCCGAAAGCGAGUGAGGUCU UGCCGUGA	19746
8617	GUUAUGAU G UGAAGGCC	4439	GGGUUCA GCCGAAAGCGAGUGAGGUCU AUCAUAAAC	19747
8622	GAUGUGAA G CCCACAGG	4440	CCUGUGG GCCGAAAGCGAGUGAGGUCU UUCACAUC	19748
8630	GCCACAG G CUCCGCCA	4441	UGGCGGAG GCCGAAAGCGAGUGAGGUCU CUGUGGGC	19749
8635	CAGGUCC G CCAGUUGG	4442	CGAACUGG GCCGAAAGCGAGUGAGGUCU GGAGCCUG	19750
8639	CUCCGCCA G UUCGUGG	4443	CCAGCGAA GCCGAAAGCGAGUGAGGUCU UGGCGGAG	19751
8643	GCCAGUUC G CUGGUCAA	4444	UUGACCAG GCCGAAAGCGAGUGAGGUCU GAACUGGC	19752
8647	GUUCGUG G UCAUUGGA	4445	UCCAUAUG GCCGAAAGCGAGUGAGGUCU CAGCGAAC	19753
8656	UCAUUGGA G UGGUCAGG	4446	CTUGACCA GCCGAAAGCGAGUGAGGUCU UCCAUAUGA	19754
8659	AUGGAGUG G UCAGGCTC	4447	GAGCCUGA GCCGAAAGCGAGUGAGGUCU CACUCCAU	19755
8664	GUGGUCAG G CUCCUCUC	4448	GAGAGGAG GCCGAAAGCGAGUGAGGUCU CUGACCCAC	19756
8698	UCACGAU G UUACCAAC	4449	GGUGGUA GCCGAAAGCGAGUGAGGUCU AUUCGUGA	19757
8710	CCACCAUG G CCAUGACU	4450	AGUCAUG GCCGAAAGCGAGUGAGGUCU CAUGGUGG	19758
8736	CCUUGG G CAGCAGC	4451	CGCUGCUG GCCGAAAGCGAGUGAGGUCU CCGAAGGG	19759
8739	UUCGGGCA G CAGCGAGU	4452	ACUCGUG GCCGAAAGCGAGUGAGGUCU UGCCCGAA	19760
8742	GGGCAGCA G CGAGUGUU	4453	AACACUCG GCCGAAAGCGAGUGAGGUCU UGCUGCCC	19761
8746	AGCAGGA G UGUUCAA	4454	UUUGAAC GCCGAAAGCGAGUGAGGUCU UGCUGUCU	19762
8748	CAGGAGU G UGUAAGA	4455	UCUUUGAA GCCGAAAGCGAGUGAGGUCU ACUCGUCG	19763
8761	AAGAGAAG G UGACACG	4456	CGUGUCCA GCCGAAAGCGAGUGAGGUCU CUUCUCU	19764
8773	ACACGAA G CUCCUGAA	4457	UUCAGGAG GCCGAAAGCGAGUGAGGUCU UUUCGUGU	19765

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8784	CCUGAAC G CCAGAAGG	4458	CCUUCUG GCCGAAGGCCGAGUGAGGUCU	GGUUCAGG	19766
8794	CAGAGGA G UGAAGUAC	4459	GUACUUA GCCGAAGGCCGAGUGAGGUCU	UCCUUCUG	19767
8799	GGAGUGA G UACUGUCU	4460	AGCACGUA GCCGAAGGCCGAGUGAGGUCU	UUCACUCC	19768
8803	UGAAGUAC G UGCUCAU	4461	AUUGAGCA GCCGAAGGCCGAGUGAGGUCU	GUACUUCA	19769
8805	AAGUACGU G CUCAUGA	4462	UCAUUGAG GCCGAAGGCCGAGUGAGGUCU	ACGUACUU	19770
8826	ACCAACUG G UUGUGGGC	4463	GCCACAA GCCGAAGGCCGAGUGAGGUCU	CAGUUGGU	19771
8829	AACUGGUU G UGGCGGUU	4464	AACGCCCA GCCGAAGGCCGAGUGAGGUCU	AACCAGUU	19772
8833	GGUUGUG G CGUUUUUG	4465	CAAAAACG GCCGAAGGCCGAGUGAGGUCU	CCACAACC	19773
8835	UUGUGGGC G UUUUUGGC	4466	GCCAAAAA GCCGAAGGCCGAGUGAGGUCU	GCCCACAA	19774
8842	CGUUUUUG G CCAGAGAA	4467	UUCUCUG GCCGAAGGCCGAGUGAGGUCU	CAAAAACG	19775
8855	AGAAAAAC G UCCACGAA	4468	UUCUGGGA GCCGAAGGCCGAGUGAGGUCU	GUUUUUUU	19776
8865	CCCAGAAU G UGCUCUG	4469	CGAGAGCA GCCGAAGGCCGAGUGAGGUCU	AUUCUGGG	19777
8867	CAGAAUUG G UUCUCGAG	4470	CUCGAGAG GCCGAAGGCCGAGUGAGGUCU	ACAUUCUG	19778
8893	UAGCAAG G UCAACAGC	4471	GCUGUUGA GCCGAAGGCCGAGUGAGGUCU	GUUCUUUA	19779
8900	GGUCAACA G CAAUGCAG	4472	CUGCAUUG GCCGAAGGCCGAGUGAGGUCU	UGUUGACC	19780
8905	ACAGCAAU G CAGCUUUG	4473	CAAAAGCUG GCCGAAGGCCGAGUGAGGUCU	AUUGCUUU	19781
8908	GCAUUGCA G CUUUGGGU	4474	ACCCAAAG GCCGAAGGCCGAGUGAGGUCU	UGCAUUGC	19782
8915	AGCUUUG G UGCCAUUG	4475	ACAUGGCA GCCGAAGGCCGAGUGAGGUCU	CCAAAGCU	19783
8917	CUUUGGGU G CCAUGUUU	4476	AAACAUGG GCCGAAGGCCGAGUGAGGUCU	ACCCAAAG	19784
8922	GGUGCCAU G UUGAAGA	4477	UCUUCAA GCCGAAGGCCGAGUGAGGUCU	AUGGCACC	19785
8931	UUUGNAGA G CAGAUCA	4478	UGAUUCUG GCCGAAGGCCGAGUGAGGUCU	UCUUCAAA	19786
8948	AUGGAGA G CGCCAGAG	4479	CUCUGGCG GCCGAAGGCCGAGUGAGGUCU	UCCUCCAU	19787
8950	GGAGGAGC G CCAGAGAA	4480	UUCUCUGG GCCGAAGGCCGAGUGAGGUCU	GCUCUCC	19788
8959	CCAGAGAA G CAGUUGAA	4481	UUCAAACUG GCCGAAGGCCGAGUGAGGUCU	UUCUCUGG	19789
8962	GAGAAGCA G UUGAAGAU	4482	AUCUUCAA GCCGAAGGCCGAGUGAGGUCU	UGCUUCUC	19790
8989	GGGAGAUG G UGGAUGAG	4483	CUCAUCCA GCCGAAGGCCGAGUGAGGUCU	CAUUCUCC	19791
9000	GAUGAGGA G CGCAGGC	4484	GCTUCGCG GCCGAAGGCCGAGUGAGGUCU	UCCUCAUC	19792
9002	UGAGGAGC G CGAGGCAC	4485	GUGCCUCG GCCGAAGGCCGAGUGAGGUCU	GCUCUCCA	19793
9007	AGCGCAG G CACAUCUG	4486	CAGAUGUG GCCGAAGGCCGAGUGAGGUCU	CUCGCGCU	19794
9015	GCACAUCU G CGGGGGGA	4487	UCCCCCGG GCCGAAGGCCGAGUGAGGUCU	AGAUGUC	19795
9026	GGGGAAU G UCACACUU	4488	AAGUGUGA GCCGAAGGCCGAGUGAGGUCU	AUUCUCCC	19796
9035	UCACACUU G CAUUUACA	4489	UGUAAUUG GCCGAAGGCCGAGUGAGGUCU	AAGUGUGA	19797
9078	CCCGGAGA G UUCGGAAA	4490	UUUCCGAA GCCGAAGGCCGAGUGAGGUCU	UCUCCGGG	19798
9088	UCGGAAG G CCAAGGGA	4491	UCCUUGG GCCGAAGGCCGAGUGAGGUCU	CUUUCGGA	19799
9098	CAAGGGAA G CAGAGCCA	4492	UGGCUCUG GCCGAAGGCCGAGUGAGGUCU	UUCCCUUG	19800
9103	GAAGCAGA G CCAUUUGG	4493	CCAAUUG GCCGAAGGCCGAGUGAGGUCU	UCUGCUUC	19801
9111	GCCAUUUG G UUCAUGUG	4494	CACAUGAA GCCGAAGGCCGAGUGAGGUCU	CAAAUGGC	19802
9117	UGGUUCAU G UGGUCUGG	4495	CCGAGCCA GCCGAAGGCCGAGUGAGGUCU	AUGAACCA	19803
9120	UUCAUGUG G CUCGGAGC	4496	GUCCCGAG GCCGAAGGCCGAGUGAGGUCU	CACAUGAA	19804
9127	GGCUCGGA G CUCGCUUU	4497	AAAGCGAG GCCGAAGGCCGAGUGAGGUCU	UCCGAGCC	19805

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9131	CGAGCUC G CUUUCUGG	4498	CCAGAAAG GCCGAAAGCGGAGUGAGGUCU GAGCUCGG	19806
9141	UUUCUGGA G UUCGAGGC	4499	GCCUCGAA GCCGAAAGCGGAGUGAGGUCU UCCAGAAA	19807
9148	AGUCUCGAG G CUUUGGGU	4500	ACCAGAGA GCCGAAAGCGGAGUGAGGUCU CUCGAACU	19808
9155	GGCUCUGG G UUUCUCA	4501	UCCGAAA GCCGAAAGCGGAGUGAGGUCU CCAGAGCC	19809
9177	GACCACUG G CUUGGAG	4502	CUUCCAAG GCCGAAAGCGGAGUGAGGUCU CAGUGGUC	19810
9203	AGGAGGAG G UGUCGAGG	4503	CCUCGACA GCCGAAAGCGGAGUGAGGUCU CUCCUCCU	19811
9205	GAGGAGGU G UCGAGGGC	4504	GCCUCUGA GCCGAAAGCGGAGUGAGGUCU ACCUCCUC	19812
9212	UGUCGAGG G CUUGGGCC	4505	GGCCCAAG GCCGAAAGCGGAGUGAGGUCU CCUCGACA	19813
9218	GGGCUUGG G CUUCCAAA	4506	UUUGGAGG GCCGAAAGCGGAGUGAGGUCU CCAAGCCC	19814
9233	AAACUCUG G UACAUCC	4507	GGAUUAA GCCGAAAGCGGAGUGAGGUCU CCAGUUUU	19815
9243	UACAUCCU G CGUGAAGU	4508	ACUUCACG GCCGAAAGCGGAGUGAGGUCU AGGAUGUA	19816
9245	CAUCCUGC G UGAAGUUG	4509	CAACUUA GCCGAAAGCGGAGUGAGGUCU GCAGGAUG	19817
9250	UGCGUGAA G UUGGCACC	4510	GGUGCCAA GCCGAAAGCGGAGUGAGGUCU UUCACGCA	19818
9254	UGAAGUUG G CACCCGGC	4511	GCCGGGUG GCCGAAAGCGGAGUGAGGUCU CAACUUA	19819
9261	GGCACCCG G CUGGGGGG	4512	CCCCCAGG GCCGAAAGCGGAGUGAGGUCU CGGGUGCC	19820
9269	GCCUGGGG G CAAGAUCU	4513	AGAUCUUG GCCGAAAGCGGAGUGAGGUCU CCCAGGBC	19821
9280	AGAUCUAU G CUGAUGAC	4514	GUCAUCAG GCCGAAAGCGGAGUGAGGUCU AUAGAUCU	19822
9292	AUGACACA G CUGGCUGG	4515	CCAGCCAG GCCGAAAGCGGAGUGAGGUCU UGUGUCAU	19823
9296	CACAGCUG G CUGGGACA	4516	UGUCCAG GCCGAAAGCGGAGUGAGGUCU CAGCUGUG	19824
9308	GGACACCC G CAUCACGA	4517	UCGUGAUG GCCGAAAGCGGAGUGAGGUCU GGGUGUCC	19825
9319	UCACGAGA G CUGACUUG	4518	CAAGUCAG GCCGAAAGCGGAGUGAGGUCU UUCUGUGA	19826
9337	AAAAGGAA G CUAAAGUG	4519	CACCUUAG GCCGAAAGCGGAGUGAGGUCU UUCAUUUU	19827
9343	AAGCUAAG G UGCUUGAG	4520	CUCAAGCA GCCGAAAGCGGAGUGAGGUCU CUUAGCTU	19828
9345	GCUAAGGU G CUUGAGCU	4521	AGCUCAAAG GCCGAAAGCGGAGUGAGGUCU ACCUUAGC	19829
9351	GUUCUUGA G CUGCUUGA	4522	UCAAGCAG GCCGAAAGCGGAGUGAGGUCU UCAAGCAC	19830
9354	CUUGAGCU G CUUGAUGG	4523	CCAUCAAG GCCGAAAGCGGAGUGAGGUCU AGCUCAAG	19831
9372	GAACAUCG G CGUCUUGC	4524	GCAAGACG GCCGAAAGCGGAGUGAGGUCU CGAUGUUC	19832
9374	ACAUCGGC G UCUUGCCA	4525	UGGCAAGA GCCGAAAGCGGAGUGAGGUCU GCCGAUGU	19833
9379	GGCUCUU G CCAGGGCC	4526	GGCCUUGG GCCGAAAGCGGAGUGAGGUCU AAGAGGCC	19834
9385	UUGCCAGG G CCAUCAUU	4527	AAUGAUGG GCCGAAAGCGGAGUGAGGUCU CTUGGCAA	19835
9396	AUCAUGA G CUCACCUA	4528	UAGGUGAG GCCGAAAGCGGAGUGAGGUCU UCAAUGAU	19836
9407	CACCUAUC G UCACAAAG	4529	CUUUGUGA GCCGAAAGCGGAGUGAGGUCU GAUAGGUG	19837
9415	GUACACAA G UUUGAUA	4530	UUUCACAA GCCGAAAGCGGAGUGAGGUCU UUUGUGAC	19838
9418	ACAAAGUU G UGAAGUG	4531	CACUUUA GCCGAAAGCGGAGUGAGGUCU AACUUUGU	19839
9424	UUUGAUA G UGAUGCGC	4532	GCGCAUCA GCCGAAAGCGGAGUGAGGUCU UUUCACAA	19840
9429	AAAGUGAU G CGCCCGGC	4533	GCCGGCG GCCGAAAGCGGAGUGAGGUCU AUCACUJU	19841
9431	AGUGAUGC G CCCGGCUG	4534	CAGCCGGG GCCGAAAGCGGAGUGAGGUCU GCAUCACU	19842
9436	UGCGCCCG G CUGCUGAU	4535	AUCAGCAG GCCGAAAGCGGAGUGAGGUCU CGGGGCGA	19843
9439	GCCCGGCU G CUGUGGA	4536	UCCAUCAG GCCGAAAGCGGAGUGAGGUCU AGCCGGGC	19844
9454	GAAGAACC G UCAUGGAU	4537	AUCCAUGA GCCGAAAGCGGAGUGAGGUCU GGUUCUUC	19845

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9463	UCAUGGAU G UUAUCUCC	4538	GGAGAUAA GCCGAAAGGCGAGUGAGGUCU AUCCAUGA	19846
9491	GAGGGGA G UGGACAAG	4539	CUUGUCCA GCCGAAAGGCGAGUGAGGUCU UCCCCUC	19847
9499	GUGACAA G UUGUACC	4540	GUAGCAA GCCGAAAGGCGAGUGAGGUCU UGUCCAC	19848
9502	GACAGU G UCACCUAC	4541	GUAGGUA GCCGAAAGGCGAGUGAGGUCU AACUJUC	19849
9511	UCACCUAC G CCUAAC	4542	GUUAGGG GCCGAAAGGCGAGUGAGGUCU GUAGGUA	19850
9535	CCAACCU G CCUCCAG	4543	CUGGACGG GCCGAAAGGCGAGUGAGGUCU CAGGJUGG	19851
9538	ACUUGGC G UCCAGCUG	4544	CAGCUGGA GCCGAAAGGCGAGUGAGGUCU GGCCAGGU	19852
9543	GCCGUCCA G CUGUGAG	4545	CUACACAG GCCGAAAGGCGAGUGAGGUCU UGGACGGC	19853
9547	UCCAGCUG G UGAGGAUG	4546	CAUCCUCA GCCGAAAGGCGAGUGAGGUCU CAGCUUGA	19854
9571	GGGAAGGA G UGAUUGGC	4547	GCCAAUCA GCCGAAAGGCGAGUGAGGUCU UCCUUCCC	19855
9578	AGUGAUTG G CCGAUG	4548	CAUCUGGG GCCGAAAGGCGAGUGAGGUCU CAAUCACU	19856
9589	CAGAUGAU G UCGAGAAA	4549	UUUCUCCA GCCGAAAGGCGAGUGAGGUCU AUCAUCUG	19857
9622	GACCCAA G UCAGGACC	4550	GUUCCUGA GCCGAAAGGCGAGUGAGGUCU UUUGGGUC	19858
9633	AGGACCU G CUGUUUGA	4551	UCAAACAG GCCGAAAGGCGAGUGAGGUCU CAGGUCCU	19859
9636	ACUUGGU G UUUGAGAA	4552	UUCUCAA GCCGAAAGGCGAGUGAGGUCU AGCCAGGU	19860
9662	AAGACUCA G CCGAUGG	4553	CCAUGCGG GCCGAAAGGCGAGUGAGGUCU UGAGUCUU	19861
9665	ACUAGCC G CAUGGCUG	4554	CAGCCAUU GCCGAAAGGCGAGUGAGGUCU GGCUGAGU	19862
9670	GCCGAUG G CUGUCAGU	4555	ACUGACAG GCCGAAAGGCGAGUGAGGUCU CAUGCGGC	19863
9673	GCAUGGU G UCAGUGGA	4556	UCCACUGA GCCGAAAGGCGAGUGAGGUCU AGCCAUGC	19864
9677	GGCUGUCA G UGAGAGUG	4557	CAUCUCCA GCCGAAAGGCGAGUGAGGUCU UGACAGCC	19865
9689	AGAUGACU G UGUGUAAA	4558	UUAACCACA GCCGAAAGGCGAGUGAGGUCU AGUCAUCU	19866
9691	AUGACUGU G UGUUAAA	4559	UUUUAACA GCCGAAAGGCGAGUGAGGUCU ACAGUCAU	19867
9694	ACUGUGU G UAAAGCCC	4560	GGGUUUA GCCGAAAGGCGAGUGAGGUCU CACACAGU	19868
9699	GUGUAAA G CCCUGGA	4561	UCCAGGGG GCCGAAAGGCGAGUGAGGUCU UUUACCAC	19869
9713	GGAGAU G CUUUGCCA	4562	UGGCAAG GCCGAAAGGCGAGUGAGGUCU GAUCGUCC	19870
9718	AUGGUUU G CCACCUUG	4563	CGAGGUGG GCCGAAAGGCGAGUGAGGUCU AAAGCGAU	19871
9726	GCCACCU G CUCCACUU	4564	AAUGGGAG GCCGAAAGGCGAGUGAGGUCU GAGGUGGC	19872
9742	UCCUCAU G CUAUGUCA	4565	UGACAUAG GCCGAAAGGCGAGUGAGGUCU AUUGAGGA	19873
9747	AAUGCUAU G UCAAAGGU	4566	ACCUUGA GCCGAAAGGCGAGUGAGGUCU AUAGCAUU	19874
9754	UGUCAAG G UUCGAAA	4567	UUUGCGAA GCCGAAAGGCGAGUGAGGUCU CUUUGACA	19875
9758	AAAGGUU G CAAGACA	4568	UGUUCUUG GCCGAAAGGCGAGUGAGGUCU GAACCTUU	19876
9774	AUCCAAGA G UGGAACCC	4569	GGUUUCCA GCCGAAAGGCGAGUGAGGUCU UCUUGGAU	19877
9783	UGGAAACC G UCAACUGG	4570	CCAGUUGA GCCGAAAGGCGAGUGAGGUCU GGUUUCCA	19878
9795	ACUGGAUG G UAUGAUUG	4571	CAAUCAUA GCCGAAAGGCGAGUGAGGUCU CAUCCAGU	19879
9804	UAUGAUUG G CAGCAGGU	4572	ACCUJUCUG GCCGAAAGGCGAGUGAGGUCU CAAUCAUA	19880
9807	GAUUGGCA G CAGGUUCC	4573	GGAACCUUG GCCGAAAGGCGAGUGAGGUCU UGCCAAUC	19881
9811	GGCAGCAG G UUCCAUUU	4574	AAUUGGAA GCCGAAAGGCGAGUGAGGUCU CUGCUGCC	19882
9821	UCCAUUU G CUCAAACC	4575	GGUUUGAG GCCGAAAGGCGAGUGAGGUCU AAAUGGA	19883
9868	GAACACUG G UGUUCCA	4576	UGGAACCA GCCGAAAGGCGAGUGAGGUCU CAGUGUUC	19884
9871	CACUGGUG G UUCAUGC	4577	GCAUGGAA GCCGAAAGGCGAGUGAGGUCU CACCAGUG	19885

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9878	GGUCCAU G CCGAGGAC	4578	GUCCUCGG GCCGAAAGGCGAGGAGGUCU AUGGAACC	19886
9888	AUGAAUUG G UAGGCAGA	4579	UCUGCCUA GCCGAAAGGCGAGGAGGUCU CAAUUCAU	19887
9902	AUUGUUG G CAGAGCUC	4580	GAGCUCUG GCCGAAAGGCGAGGAGGUCU CUACCAAU	19888
9907	UAGGCAGA G CUGGCAUA	4581	UAUGCGAG GCCGAAAGGCGAGGAGGUCU UCUGCCUA	19889
9911	CAGAGCUC G CAUAUCUC	4582	GAGAUAUG GCCGAAAGGCGAGGAGGUCU GAGCUCUG	19890
9925	CUCCAGGG G CCGGAUGG	4583	CCAUCGCG GCCGAAAGGCGAGGAGGUCU CCUGGAG	19891
9937	GAUGGAAC G UCCGCGAC	4584	GUCCGCGA GCCGAAAGGCGAGGAGGUCU GUUCCAUC	19892
9941	GAACGUCC G CGACACUG	4585	CAGUGUCG GCCGAAAGGCGAGGAGGUCU GGACGUUC	19893
9949	GGGACACU G CUUGUCUG	4586	CAGACAAG GCCGAAAGGCGAGGAGGUCU AGUGUCGC	19894
9953	CACUGCUU G UCUGGCCUA	4587	UAGCCAGA GCCGAAAGGCGAGGAGGUCU AAGCAGUG	19895
9958	CUUGUCUG G CUAAGUCU	4588	AGACUUGAG GCCGAAAGGCGAGGAGGUCU CAGACAAG	19896
9963	CUUGCUAA G UCUAUUGC	4589	GCAUAAGA GCCGAAAGGCGAGGAGGUCU UUAAGCCAG	19897
9970	AGUCUUAU G CCGAGAUG	4590	CAUCUGGG GCCGAAAGGCGAGGAGGUCU AUAAGACU	19898
9978	GCCCAGAU G UGGCUGCU	4591	AGCAGCCA GCCGAAAGGCGAGGAGGUCU AUCUGGGC	19899
9981	CAGAUGUG G CUGCUUCU	4592	AGAAGCAG GCCGAAAGGCGAGGAGGUCU CACAUCUG	19900
9984	AUGUGGUU G CUUCUGUA	4593	UACAGAAAG GCCGAAAGGCGAGGAGGUCU AGCCACAU	19901
9990	CUGCUUCU G UACUUGCA	4594	UGGAAGUA GCCGAAAGGCGAGGAGGUCU AGAAGCAG	19902
10011	AGAGACCU G CGGCUCAU	4595	AUGAGCCG GCCGAAAGGCGAGGAGGUCU AGGUCUCU	19903
10014	GACCUUG G CUAUGGC	4596	GCCAUGAG GCCGAAAGGCGAGGAGGUCU CGCAGGUC	19904
10021	GGCUCUG G CCAACGCC	4597	GGCUTUGG GCCGAAAGGCGAGGAGGUCU CAUGAGCC	19905
10027	UGGCCAAC G CCAUUGC	4598	GCAAUUGG GCCGAAAGGCGAGGAGGUCU GUUGGCCA	19906
10034	CGCCAUUU G CUCCGUG	4599	CAGCGGAG GCCGAAAGGCGAGGAGGUCU AAAUGGCG	19907
10039	UUUGCUCC G CUGUCCCU	4600	AGGGACAG GCCGAAAGGCGAGGAGGUCU GGAGCAAA	19908
10042	GCUCGCUU G UCCUUGUG	4601	CACAGGGA GCCGAAAGGCGAGGAGGUCU AGCGGAGC	19909
10048	CUUGCCUU G UGAAUUGG	4602	CCAAUUCA GCCGAAAGGCGAGGAGGUCU AGGACAG	19910
10057	UGAAUUGG G UCCCUACC	4603	GGUAGGGA GCCGAAAGGCGAGGAGGUCU CCAAUUCA	19911
10077	AGAACCAC G UGGUCCAU	4604	AUGGACCA GCCGAAAGGCGAGGAGGUCU GUGGUUCU	19912
10080	ACCACGUG G UCCAUGCA	4605	UGGAUGGA GCCGAAAGGCGAGGAGGUCU CACGGUGU	19913
10090	CCAUCCAU G CAGGAGGA	4606	UCCUCCUG GCCGAAAGGCGAGGAGGUCU AUGGAUGG	19914
10101	GGAGGAGA G UGGAUGAC	4607	GUCAUCCA GCCGAAAGGCGAGGAGGUCU UCUCUCCU	19915
10122	GAGGACAU G UUGGAGGU	4608	ACCUCCAA GCCGAAAGGCGAGGAGGUCU AUGUCCUC	19916
10129	UGUUGGAG G UCUGGAAC	4609	GUUCGAGA GCCGAAAGGCGAGGAGGUCU CUCCAACA	19917
10139	CUGGAACC G UGUUUGGA	4610	UCCAACA GCCGAAAGGCGAGGAGGUCU GGUUCCAG	19918
10141	GGAACCGU G UUGGAUA	4611	UAUCCAAA GCCGAAAGGCGAGGAGGUCU ACGGUUCC	19919
10183	AAACCCCA G UGGAGAAA	4612	UUUCUCCA GCCGAAAGGCGAGGAGGUCU UGGGGUUU	19920
10196	GAAUUGGA G UGACGUCC	4613	GGACGUCA GCCGAAAGGCGAGGAGGUCU UCCAUUUC	19921
10201	GGAGUGAC G UCCCAUAU	4614	AUAUGGGA GCCGAAAGGCGAGGAGGUCU GUACAUCC	19922
10233	GACAUCUG G UUGGCGAG	4615	CUGCCACA GCCGAAAGGCGAGGAGGUCU CAGAUGUC	19923
10235	CAUCUGGU G UGGCAGCC	4616	GGCUGCCA GCCGAAAGGCGAGGAGGUCU ACCAGAUG	19924
10238	CUGGUGUG G CAGCCUGA	4617	UCAGGCTUG GCCGAAAGGCGAGGAGGUCU CACACCAG	19925

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10241	GUGUGGCA G CCUGAUG	4618	CAUUCAGG GCCGAAAGGCGAGUGAGGUCU UGCCACAC	19926
10250	CCUGAUG G CACAAGAG	4619	CUCUUGUG GCCGAAAGGCGAGUGAGGUCU CAAUCAGG	19927
10258	GCACNAG G CCGAGGCC	4620	GGCUCGGG GCCGAAAGGCGAGUGAGGUCU UCUUGUGC	19928
10264	GAGCCGA G CCACGUGG	4621	CCACGUGG GCCGAAAGGCGAGUGAGGUCU UCGGGCUC	19929
10269	CGAGCCAC G UGGGCGA	4622	UCUGCCCA GCCGAAAGGCGAGUGAGGUCU GUGGCUCG	19930
10273	CCACGUGG G CAGAAAC	4623	GUUUCUG GCCGAAAGGCGAGUGAGGUCU CCACGUGG	19931
10288	ACAUCACG G UGGCUAUC	4624	GAUAGCCA GCCGAAAGGCGAGUGAGGUCU CUGGAUGU	19932
10291	UCCAGGUG G CUACAAC	4625	GUUGAUG GCCGAAAGGCGAGUGAGGUCU CACCTUGA	19933
10303	UCACACCA G UCAGAGCA	4626	UGCUCUGA GCCGAAAGGCGAGUGAGGUCU UUGGUUGA	19934
10309	AAGUCAGA G CAUACAUC	4627	GAUGAUTG GCCGAAAGGCGAGUGAGGUCU UCUGACUU	19935
10329	GAUGAGAA G UAUGUGA	4628	UCCACAUA GCCGAAAGGCGAGUGAGGUCU UUCUCAUC	19936
10333	AGAAUAU G UGGAUUA	4629	GUAAUCCA GCCGAAAGGCGAGUGAGGUCU AUACUUCU	19937
10346	UUAUAUA G UUCACUA	4630	UUAGUGAA GCCGAAAGGCGAGUGAGGUCU UCAUGUAA	19938
10378	CAACUUG G UUCAGGAC	4631	GUCCUCA GCCGAAAGGCGAGUGAGGUCU CAAAGUUG	19939
10390	AGGACACA G UACUGUAG	4632	CUACAGUA GCCGAAAGGCGAGUGAGGUCU UGUGUCCU	19940
10395	ACAGUACU G UAGAUAU	4633	AAUAUCUA GCCGAAAGGCGAGUGAGGUCU AGUACUGU	19941
10413	AUCAAUU G UAAUAGA	4634	UCUAUUUA GCCGAAAGGCGAGUGAGGUCU AAUUGAUU	19942
10430	CAUAUAU G UAUGCAUA	4635	UAUGCAUA GCCGAAAGGCGAGUGAGGUCU UUAUAUUG	19943
10434	AUAUAUA G CAUAAAG	4636	CUUUUAUG GCCGAAAGGCGAGUGAGGUCU AUACUUAU	19944
10442	GCAUAAA G UGUAGUUU	4637	AAACUACA GCCGAAAGGCGAGUGAGGUCU UUUUAUGC	19945
10444	AUAAAGU G UAGUUUA	4638	UAAUAUA GCCGAAAGGCGAGUGAGGUCU ACUUUUUA	19946
10447	AAAGUGA G UUUUAUG	4639	CUAUAAA GCCGAAAGGCGAGUGAGGUCU UACACUUU	19947
10455	GUUUUAU G UUAUAUU	4640	AAUAUAUA GCCGAAAGGCGAGUGAGGUCU UAUAAAAC	19948
10458	UUAUAUA G UAUUAUG	4641	ACUAAUA GCCGAAAGGCGAGUGAGGUCU UACTUAUA	19949
10465	AGUAUUUA G UGUGUUA	4642	UAAACACA GCCGAAAGGCGAGUGAGGUCU UAAAUACU	19950
10468	AUUUAGU G UGUUAGU	4643	CACUAACA GCCGAAAGGCGAGUGAGGUCU CACUAAAU	19951
10470	UUUAGUGU G UUAGUGUA	4644	UACACUAA GCCGAAAGGCGAGUGAGGUCU ACCACUAA	19952
10474	UGUUGUUA G UGUAAUA	4645	UAUUUACA GCCGAAAGGCGAGUGAGGUCU UAACACCA	19953
10476	GUGUUAGU G UAAUAUG	4646	ACUAUUUA GCCGAAAGGCGAGUGAGGUCU ACUAACAC	19954
10483	UGUAAUA G UUAAGAA	4647	UUUCUUAA GCCGAAAGGCGAGUGAGGUCU UAUUUACA	19955
10506	AGGAGAA G UCAGGCCG	4648	CGGCCUGA GCCGAAAGGCGAGUGAGGUCU UUUUCUCU	19956
10511	AAAGUCAG G CCAGGAAG	4649	CUUCCCGG GCCGAAAGGCGAGUGAGGUCU CUGACUUU	19957
10519	GCCGGGAA G UUCGCCGC	4650	GGCGGGAA GCCGAAAGGCGAGUGAGGUCU UUCGCCGC	19958
10525	AAGUCCC G CCACGGA	4651	UCCGUGUG GCCGAAAGGCGAGUGAGGUCU GGGAACTU	19959
10535	CACGGAA G UUGAGUAG	4652	CUACUCAA GCCGAAAGGCGAGUGAGGUCU UUCCGGUG	19960
10540	GAAGUUA G UAGACGGU	4653	ACCGUCUA GCCGAAAGGCGAGUGAGGUCU UCAACUUC	19961
10547	AGUAGACG G UGUCUCCU	4654	AGGCAGCA GCCGAAAGGCGAGUGAGGUCU CGUCUACU	19962
10549	UAGACGGU G CUGCCUGC	4655	GCAGGCAG GCCGAAAGGCGAGUGAGGUCU ACCGUCUA	19963
10552	ACGGUGCU G CCUGCGAC	4656	GUCGCAGG GCCGAAAGGCGAGUGAGGUCU AGCACCGU	19964
10556	UGCUGCCU G CGACUCAA	4657	UUGAGUCG GCCGAAAGGCGAGUGAGGUCU AGGCAGCA	19965

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10580	AGGACUGG G UGAACAAA	4658	UUUGUUCA GCCGAAAGGCGAGUGAGGUCU CCAGUCCU	19966
10589	UGAACAAA G CCGCGAAG	4659	CUUCGCGG GCCGAAAGGCGAGUGAGGUCU UUUGUUCA	19967
10592	ACAAAGCC G CGAAGUGA	4660	UACUUCG GCCGAAAGGCGAGUGAGGUCU GGUUUUGU	19968
10597	GCGCGGAA G UGAUCCAU	4661	AUGGAUCA GCCGAAAGGCGAGUGAGGUCU UUCGCGGC	19969
10606	UGAUCCAU G UGAUCCAU	4662	AGGGCUUA GCCGAAAGGCGAGUGAGGUCU AUGGAUCA	19970
10610	CCAUGUAA G CCUCACAGA	4663	UCUGAGGG GCCGAAAGGCGAGUGAGGUCU UUACAUGG	19971
10622	UCAGAACG G UCUCGGAA	4664	UUCCGAGA GCCGAAAGGCGAGUGAGGUCU GGUUCUGA	19972
10645	CCCACAU G UUGUAACU	4665	AGUUACAA GCCGAAAGGCGAGUGAGGUCU AUGUGGGG	19973
10648	CACAUGUU G URAUUAUA	4666	UGAAGUUA GCCGAAAGGCGAGUGAGGUCU AACAUUGU	19974
10659	ACUUCAAA G CCCAAUUGU	4667	ACAUUGGG GCCGAAAGGCGAGUGAGGUCU UUUGAAGU	19975
10666	AGCCCAU G UCAGACCA	4668	UGGUUCUGA GCCGAAAGGCGAGUGAGGUCU AUUGGGCU	19976
10676	CAGACCAC G CUACGGCG	4669	CGCCGUDAG GCCGAAAGGCGAGUGAGGUCU GUGGUCUG	19977
10682	ACGUACG G CGUGCUAC	4670	GUAGCAG GCCGAAAGGCGAGUGAGGUCU CGUAGCGU	19978
10684	GUACGGC G UGUUACUC	4671	GAGUAGCA GCCGAAAGGCGAGUGAGGUCU GCCGUAGC	19979
10686	UACGGCGU G CUACUCUG	4672	CAGAGUAG GCCGAAAGGCGAGUGAGGUCU ACGCCGUA	19980
10694	GUACUCU G CGGAGAGU	4673	ACUCUCCG GCCGAAAGGCGAGUGAGGUCU AGAGUAGC	19981
10701	UGCGGAGA G UGCAGUCU	4674	AGACUGCA GCCGAAAGGCGAGUGAGGUCU UCUCGCGA	19982
10703	CGGAGAGU G CAGUCUUC	4675	GCAGACUG GCCGAAAGGCGAGUGAGGUCU ACUCUCCG	19983
10706	AGAGUGCA G UCUCGCAU	4676	AUCGCAGA GCCGAAAGGCGAGUGAGGUCU UGCACUCU	19984
10710	UGCAGUCU G CGAUAGUG	4677	CACUAUCG GCCGAAAGGCGAGUGAGGUCU AGACUGCA	19985
10716	CUGCGAUA G UGCCCCAG	4678	UUGGGGCA GCCGAAAGGCGAGUGAGGUCU VAUCGCAG	19986
10718	CGGAUAGU G CCGCAGGA	4679	UUCUGGGG GCCGAAAGGCGAGUGAGGUCU ACTAUUGC	19987
10734	AGGACUGG G UUAACAAA	4680	UUUGUUAU GCCGAAAGGCGAGUGAGGUCU CCAGUCUU	19988
10744	UAAACAA G CAAACCAA	4681	UUGGUUUG GCCGAAAGGCGAGUGAGGUCU CUUUGUUA	19989
10754	AAACCAAC G CCCACGCG	4682	GCUGGGGG GCCGAAAGGCGAGUGAGGUCU GUUGUUUU	19990
10761	CGCCCCAC G CGGCCCCUA	4683	UAGGGCCG GCCGAAAGGCGAGUGAGGUCU GUGGGGCG	19991
10764	CCACGCG G CCUAGCC	4684	GCTUAGGG GCCGAAAGGCGAGUGAGGUCU CGCGUGGG	19992
10770	CGGCCCUA G CCGCGGUA	4685	UACCGGGG GCCGAAAGGCGAGUGAGGUCU UAGGGCCG	19993
10776	UAGCCCCG G UAUUGGUG	4686	CACCAUUA GCCGAAAGGCGAGUGAGGUCU CGGGGCUA	19994
10782	CGGUUAUG G UGUUAACC	4687	GGUUAACA GCCGAAAGGCGAGUGAGGUCU CAUUAACG	19995
10784	GUUAUGGU G UUAACACG	4688	CUUGUUAU GCCGAAAGGCGAGUGAGGUCU ACCAUUAC	19996
10794	UAACACAG G CGAAAGGA	4689	UCCUUCUG GCCGAAAGGCGAGUGAGGUCU CCTUGGUA	19997
10809	GACUAGAG G UUAAGAGGA	4690	UCCUCUAA GCCGAAAGGCGAGUGAGGUCU CUCUAGUC	19998
10824	GAGACCCC G CGGUUUAU	4691	UUAAACCG GCCGAAAGGCGAGUGAGGUCU GGGGUCUC	19999
10827	ACCCGCG G UUAUAAGU	4692	ACUUUAAA GCCGAAAGGCGAGUGAGGUCU CGCGGGGU	20000
10834	GUUUUAAA G UGCACGGC	4693	GCGGUGCA GCCGAAAGGCGAGUGAGGUCU UUUAAACC	20001
10836	UUUAAGU G CACGGCCC	4694	GGGCCGUG GCCGAAAGGCGAGUGAGGUCU ACUTUAAA	20002
10841	AGUGCACG G CCGAGCCU	4695	AGGUCUGG GCCGAAAGGCGAGUGAGGUCU CGUGCACU	20003
10846	ACGGCCCA G CCUGACUG	4696	CAGUCAGG GCCGAAAGGCGAGUGAGGUCU UGGGCGGU	20004
10857	UGACUGAA G CUGUAGGU	4697	ACCUACAG GCCGAAAGGCGAGUGAGGUCU UUCAGUCA	20005

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10860	CUGAAGCU G UAGGUCAG	4698	CUGAACCUA GCCGAAAGGCGAGUGAGGUCU AGCUUCAG	20006
10864	AGCUGUAG G UCAGGGGA	4699	UCCCCUGA GCCGAAAGGCGAGUGAGGUCU CUACAGCU	20007
10883	GACUGAG G UUGUGGA	4700	UCCAGUAA GCCGAAAGGCGAGUGAGGUCU CUCUAGUC	20008
10887	AGAGGUA G UGGAGAC	4701	GGUCUCCA GCCGAAAGGCGAGUGAGGUCU UAACCCUCU	20009
10898	GAGACCC G UGCCAAG	4702	UUGUGGCA GCCGAAAGGCGAGUGAGGUCU GGGGUCUC	20010
10900	GACCCGU G CCACAAA	4703	UUUUGUG GCCGAAAGGCGAGUGAGGUCU ACGGGGUC	20011
10924	ACAAACA G CAUAUUGA	4704	UCAUAUG GCCGAAAGGCGAGUGAGGUCU UGUUUUGU	20012
10960	GAUCUUCU G CUCUGCAC	4705	GUGCAGAG GCCGAAAGGCGAGUGAGGUCU AGAAGAUC	20013
10965	UCUGUCU G CACAACCA	4706	UGGUUGUG GCCGAAAGGCGAGUGAGGUCU AGAGCAGA	20014
10974	CACAACA G CCACACGG	4707	CCGUGUG GCCGAAAGGCGAGUGAGGUCU UGGUUGUG	20015
10982	GCCACAG G CACAGUGC	4708	GCACUGUG GCCGAAAGGCGAGUGAGGUCU CGUGUGGC	20016
10987	ACGGACA G UGCGCGA	4709	UCGCGCA GCCGAAAGGCGAGUGAGGUCU UGUGCCGU	20017
10989	GGCACAGU G CGCCGACA	4710	UGUCGGCG GCCGAAAGGCGAGUGAGGUCU ACUGUGCC	20018
10991	CACAGUC G CCGACRAU	4711	AUUGUCGG GCCGAAAGGCGAGUGAGGUCU GCACUGUG	20019
11001	CGACAAUG G UGGCUGGU	4712	ACCAGCCA GCCGAAAGGCGAGUGAGGUCU CAUUGUCG	20020
11004	CAUUGGUG G CUGGUGGU	4713	ACCACCAG GCCGAAAGGCGAGUGAGGUCU CACCAUUG	20021
11008	GGUGGUG G UGGUGCGA	4714	UCGCACCA GCCGAAAGGCGAGUGAGGUCU CAGCCACC	20022
11011	GGCUGGUG G UGCAGAA	4715	UUCUGCA GCCGAAAGGCGAGUGAGGUCU CACCAGCC	20023
11013	CUGGUGGU G CGAGRACA	4716	UGUUCUG GCCGAAAGGCGAGUGAGGUCU ACCACCAG	20024

Input Sequence = AF196835. Cut Site = G/Y

Arm Length = 8. Core Sequence = GCCGAAAGGCGAGuCaagGuCu

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table VI: WNV DNzyme and Target Sequence

Pos	Substrate	Seq ID	DNzyme Sequence	Seq ID
142	CUGUCAAU A UGCUAAAA	20	TTTTAGCA GGCTAGCTACAACGA ATTGACAG	20025
196	AGAGGGCU A UGUUGAGC	26	GCTCAACA GGCTAGCTACAACGA AGCCCTCT	20026
228	GGGCCAAU A CGAUUUGU	29	ACAAATCG GGCTAGCTACAACGA ATTGGCCC	20027
379	CCAGUGCU A UCAAUCGG	53	CCGATTGA GGCTAGCTACAACGA AGCACTGG	20028
469	GAGCAGUU A CCCUCUCU	63	AGAGAGGG GGCTAGCTACAACGA AACTGCTC	20029
514	UAAAUGCU A CUGACGUC	70	GACGTGAG GGCTAGCTACAACGA AGCATTTA	20030
564	AAGAACC U A UGCAUUGU	76	ACAATGCA GGCTAGCTACAACGA AGGTTCTT	20031
593	UGUGGGAU A CAUGUGCG	79	CGCATGAT GGCTAGCTACAACGA ATCCACA	20032
607	GCGAUGAU A CUAUCACU	80	AGTGATAG GGCTAGCTACAACGA ATCATCGC	20033
610	AUGAUACU A UCACUUAU	81	ATAAGTGA GGCTAGCTACAACGA AGTATCAT	20034
617	UAUCACUU A UGAAUGCC	84	GGCATTCA GGCTAGCTACAACGA AAGTGATA	20035
689	AGCAGUCU A CGUCAGGU	92	ACCTGACG GGCTAGCTACAACGA AGACTGCT	20036
698	CGUCAGGU A UGGAAGAU	94	ATCTTCCA GGCTAGCTACAACGA ACCTGACG	20037
824	CACAAGGU A UUGGUUAA	101	TTACCAA GGCTAGCTACAACGA ACCTTGTC	20038
866	CCCUGGAU A UGCCCUGG	108	CCAGGGCA GGCTAGCTACAACGA ATCCAGGG	20039
939	GUCGUGCU A UUGCUUUU	117	AAAAGCAA GGCTAGCTACAACGA AGCAGCAC	20040
962	CCGAGCUU A CAGCUUCA	123	TGAAGCTG GGCTAGCTACAACGA AAGCTGGG	20041
1063	GCGUGACU A UCAUGUCU	136	AGACATGA GGCTAGCTACAACGA AGTCACGC	20042
1084	ACAAGCCU A CCAUCGAU	140	ATCGATGG GGCTAGCTACAACGA AGGCTTGT	20043
1108	UGAUGAAU A UGGAGGCG	142	CGCCTCCA GGCTAGCTACAACGA ATTCATCA	20044
1142	CGCAGUUU A UUGCUAUU	146	AATAGCAA GGCTAGCTACAACGA AACTGCGG	20045
1148	UUAUUGCU A UUGGCUUA	148	TAGCCAAA GGCTAGCTACAACGA AGCAATAA	20046
1156	AUUUGGCU A CCGUCAGC	151	GCTGACGG GGCTAGCTACAACGA AGCCAAAT	20047
1287	UGCGGAUU A UUUGGCAA	161	TTGCCAAA GGCTAGCTACAACGA AATCCGCA	20048
1333	CCUGUCU A CCAAGGCA	168	TGCTTTGG GGCTAGCTACAACGA AGAGCAGG	20049
1369	AAGAGAAU A UCAAGUAC	172	GTACTTGA GGCTAGCTACAACGA ATTCTCTT	20050
1376	UAUCAAGU A CGAAGUGG	174	CCACTTCG GGCTAGCTACAACGA ACTTGATA	20051
1408	GACCAACU A CUGUGGAG	180	CTCCACAG GGCTAGCTACAACGA AGTTGGTC	20052
1430	CGGAAACU A CUCCACAC	182	GTGTGGAG GGCTAGCTACAACGA AGTTTCCG	20053
1493	GCCUUCAU A CACACUAA	192	TTAGTGTG GGCTAGCTACAACGA ATGAAGGC	20054
1514	UGGAGAAU A UGGAGAGG	195	CCTCTCCA GGCTAGCTACAACGA ATTCTCCA	20055
1568	CAAUGCAU A CUACGUGA	198	TCACGTAG GGCTAGCTACAACGA ATGCATTG	20056
1571	UGCAUACU A CGUGAUGA	199	TCATCACG GGCTAGCTACAACGA AGTATGCA	20057
1657	CUGGAAGU A CUGUGUGG	211	CCACACAG GGCTAGCTACAACGA ACTTCCAG	20058
1871	AACAACCU A UGGCGUCU	239	AGACGCCA GGCTAGCTACAACGA AGGTTGTT	20059
1952	AUUGCAGU A CACUGGCA	254	TGCCAGTG GGCTAGCTACAACGA ACTGCAAT	20060
1984	AAGUCCU A UCUCGUCA	258	TGACGAGA GGCTAGCTACAACGA AGGAACTT	20061
2114	AGACUCAU A CAUAGUGG	282	CCACTATG GGCTAGCTACAACGA ATGAGTCT	20062
2191	AAGCCUUU A CAACCACC	291	GGTGGTTG GGCTAGCTACAACGA AAAGGCTT	20063
2532	GUGUUCAU A CACAAUGA	343	TCATTGTG GGCTAGCTACAACGA ATGAACAC	20064
2564	GGACCGGU A CAAGUAUU	345	AATACTTG GGCTAGCTACAACGA ACCGGTCC	20065
2570	GUACAAGU A UUACCCUG	346	CAGGGTAA GGCTAGCTACAACGA ACTTGTAC	20066
2573	CAAGUAUU A CCCUGAAA	348	TTTCAGGG GGCTAGCTACAACGA AATACTTG	20067
2640	UGCGGUCU A CGAUCAGU	356	ACTGATCG GGCTAGCTACAACGA AGACCGCA	20068
2759	GGGAAUGU A CAAGUCAG	370	CTGACTTG GGCTAGCTACAACGA ACATTCCC	20069
2833	GAAAGAGU A UUUUAUUU	376	AAATAAAA GGCTAGCTACAACGA ACTCTTTC	20070
2838	AGUAUUUU A UUUGCACC	380	GGTGCAAA GGCTAGCTACAACGA AAAATACT	20071
3068	CCUGUCCU A UUGGAUUG	413	CAATCCAA GGCTAGCTACAACGA AGGACAGG	20072
3094	UCAUGAU A CGUGGAAG	417	CTTCCACG GGCTAGCTACAACGA ATCATTGA	20073
3139	AAUCAUGU A CGUGGCCU	423	AGGCCACG GGCTAGCTACAACGA ACATGATT	20074
3157	AGACGCAU A CCUUGUGG	424	CCACAAGG GGCTAGCTACAACGA ATGCGTCT	20075
3198	UUGAUAUU A CCAGUCAC	430	GTCAGTGG GGCTAGCTACAACGA ATTATCAA	20076
3248	ACCUGGGU A CAAGACAC	434	GTGTCTTG GGCTAGCTACAACGA ACCCAGGT	20077
3305	CUUCGAUU A CUGCCAG	440	CTGGGCAG GGCTAGCTACAACGA AATCGAAG	20078
3319	CAGGAACU A CGGUCACC	441	GGTGACCG GGCTAGCTACAACGA AGTTCCTG	20079
3423	UGCACCUU A CCACCACU	448	AGTGGTGG GGCTAGCTACAACGA AAGGTGCA	20080
3437	ACUGCGCU A CCAAACUG	449	CAGTTTGG GGCTAGCTACAACGA AGCGCAGT	20081
3461	CUGUUGGU A UGGUAUGG	451	CCATACCA GGCTAGCTACAACGA ACCAACAG	20082

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3466	GGUAUGGU A UGGAGAUC	452	GATCTCCA GGCTAGCTACAACGA ACCATACC	20083
3527	GAUUGCUU A UAAUGCUG	457	CAGCATTG GGCTAGCTACAACGA AAGCATTC	20084
3538	AUGCUGAU A UGAUUGAC	459	GTCATCA GGCTAGCTACAACGA ATCAGCAT	20085
3634	UGCCAGCU A UACUGAUU	476	AATCAGTA GGCTAGCTACAACGA AGCTGGCA	20086
3636	CCAGCUAU A CUGAUUGC	477	GCAATCAG GGCTAGCTACAACGA ATAGCTGG	20087
3673	GGGGCAUU A CUUACACU	485	AGTGTAAAG GGCTAGCTACAACGA AATGCCCC	20088
3677	CAUUAUUU A CACUGAUG	487	CATCAGTG GGCTAGCTACAACGA AAGTAATG	20089
3690	GAUGUGUU A CGCUAUGU	489	ACATAGCG GGCTAGCTACAACGA AACACATC	20090
3695	GUUACGCU A UGUCAUCU	490	AGATGACA GGCTAGCTACAACGA AGCGTAAC	20091
3750	GACGUGGU A CACUUGGC	501	GCCAAGTG GGCTAGCTACAACGA ACCACGTC	20092
3780	UUCAAGAU A CAACCAGU	506	ACTGGTTG GGCTAGCTACAACGA ATCTTGAA	20093
3793	CAGUGUUU A UGGUGGCA	509	TGCCACCA GGCTAGCTACAACGA AAACACTG	20094
3878	AAUGGCUU A UCACGAUG	528	CATCGTGA GGCTAGCTACAACGA AAGCCATT	20095
3951	UGGAUGAU A CUGAGAGC	539	GCTCTCAG GGCTAGCTACAACGA ATCATCCA	20096
4046	GGAUUGUU A CAGGAUAC	551	GTATCCTG GGCTAGCTACAACGA ACACATCC	20097
4053	UACAGGAU A CUGCUGUU	552	AACAGCAG GGCTAGCTACAACGA ATCCTGTA	20098
4134	AGUCUGCU A UGCUUGGC	559	GCCAAGCA GGCTAGCTACAACGA AGCAGACT	20099
4321	CAUUGACU A UCGCGGGG	584	CCCCGCGA GGCTAGCTACAACGA AGTCATTG	20100
4372	CAACAGAU A UGUGGAUU	596	AATCCACA GGCTAGCTACAACGA ATCTGTTG	20101
4423	CAGAAAUU A CAGGCUCG	602	CGAGCCTG GGCTAGCTACAACGA AATTTCCTG	20102
4509	UGGAAGAU A UGGAUGCU	611	AGCATCCA GGCTAGCTACAACGA ATCTTCCA	20103
4547	UAGUGCGU A CACCCCUU	618	AGGGGGTG GGCTAGCTACAACGA ACGCAGTA	20104
4601	UCUCCAAU A CACAAAGA	630	TCTTTGTG GGCTAGCTACAACGA ATTGGAGA	20105
4649	AAAGGAGU A CAAAAAGG	634	CCTTTTTG GGCTAGCTACAACGA ACTCCTTT	20106
4679	CGGCGUCU A CAGGAUCA	636	TGATCCTG GGCTAGCTACAACGA AGACGCGG	20107
4712	CGGCAGUU A UCAAGCAG	641	CTGCTTGA GGCTAGCTACAACGA AACTGCCG	20108
4765	UUUGGCAU A CAACAAA	650	TTTTGTTG GGCTAGCTACAACGA ATGCCAAA	20109
4814	GGACCAU A CUGGGGCA	653	TGCCCCAG GGCTAGCTACAACGA ATGGGTCC	20110
4847	ACUUUGUU A CGGAGGAC	659	GTCCTCCG GGCTAGCTACAACGA AACAAAGT	20111
5060	UGGGCUUU A UGGCAAUG	678	CATTGCCA GGCTAGCTACAACGA AAAGCCCA	20112
5093	CGGCUCAU A CAUAAGCG	682	CGTTTATG GGCTAGCTACAACGA ATGAGCCG	20113
5184	AUCACUGU A CUGGAUCU	689	AGATCCAG GGCTAGCTACAACGA ACAGTGAT	20114
5339	CAUCCGGU A CCAGACAU	702	ATGTCTGG GGCTAGCTACAACGA ACCGGATG	20115
5404	GUCAUGCU A CCCUCACC	709	GGTGAGGG GGCTAGCTACAACGA AGCATGAC	20116
5447	GCCGAACU A CAACCGU	714	ACAGGTTG GGCTAGCTACAACGA AGTTCGGC	20117
5510	AAGAGGUU A CAUUUCCA	724	TGGAAATG GGCTAGCTACAACGA AACCTCTT	20118
5550	GCGGCAU A UUCAUGAC	730	GTCATGAA GGCTAGCTACAACGA ATTGCGCG	20119
5619	UCCGACUU A CAGACUGA	745	TCAGTCTG GGCTAGCTACAACGA AAGTCGGA	20120
5657	CUCUGGAU A CGAAUGGA	750	TCCATTG GGCTAGCTACAACGA ATCCAGAG	20121
5675	CACAGAAU A CACCGGGA	752	TCCCGGTG GGCTAGCTACAACGA ATTCGTG	20122
5739	CUUUGCCU A CAACGUGC	762	GCACGTTG GGCTAGCTACAACGA AGGCAAG	20123
5783	AAAGUCGU A CGAGACGG	767	CCGTCTCG GGCTAGCTACAACGA ACGACTTT	20124
5795	GACGGAGU A CCCAAAU	768	ATTTTGGG GGCTAGCTACAACGA ACTCCGTC	20125
5830	ACUUUGUU A UCACAACA	774	TGTTGTGA GGCTAGCTACAACGA AACAAAGT	20126
5844	ACAGACAU A UCUGAAAU	776	ATTTGAGA GGCTAGCTACAACGA ATGTCTGT	20127
5995	GUGGACGU A UCGGUAGA	787	TCTACCGA GGCTAGCTACAACGA ACGTCCAC	20128
6029	UGAUGAGU A CUGUUAUG	793	CATAACAG GGCTAGCTACAACGA ACTCATCA	20129
6035	GUACUGUU A UGGGGGCG	795	GCCCCCA GGCTAGCTACAACGA AACAGTAC	20130
6140	UCAAUUCU A CCAACCAG	806	CTGGTTGG GGCTAGCTACAACGA AGAATTGA	20131
6162	GAGAAGGU A UAUACCAU	807	ATGGTATA GGCTAGCTACAACGA ACCTTCTC	20132
6164	GAAGGUAU A UACCAUGG	808	CCATGGTA GGCTAGCTACAACGA ATACCTTC	20133
6166	AGGUUAU A CCAUGGAU	809	ATCCATGG GGCTAGCTACAACGA ATATACCT	20134
6182	UGGGGAU A CCGGCUCA	810	TGAGCCGG GGCTAGCTACAACGA ATTCCCA	20135
6257	GCUGGCUU A CAAGGUUG	820	CAACCTTG GGCTAGCTACAACGA AAGCCAGC	20136
6284	AGUGUCAU A CCACGACC	823	GGTCGTGG GGCTAGCTACAACGA ATGACACT	20137
6416	CAGGUGU A CUCGGAU	838	GATCCGAG GGCTAGCTACAACGA ACACCCTG	20138
6551	CACCAUGU A CGUUGUGG	858	CCACAACG GGCTAGCTACAACGA ACATGGTG	20139
6645	AUUGCCUU A UUGAGUGU	868	ACACTCAA GGCTAGCTACAACGA AAGGCAAT	20140
6669	AUGGGAGU A UUCUCCU	870	AGGAAGAA GGCTAGCTACAACGA ACTCCCAT	20141
7049	GUCACUGU A CGCUGUGA	934	TCACAGCG GGCTAGCTACAACGA ACAGTGAC	20142
7106	GUCAGAUU A CAUCAACA	944	TGTTGATG GGCTAGCTACAACGA AATCTGAC	20143
7152	AGUGCACU A UUCACACU	952	AGTGTGAA GGCTAGCTACAACGA AGTGCACT	20144

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7246	UCACCGUU A CGGUAACA	969	TGTTACCG GGCTAGCTACAACGA AACGGTGA	20145
7280	UUGCCACU A UGCCUACA	977	TGTAGCA GGCTAGCTACAACGA AGTGGCAA	20146
7286	CUAUGCCU A CAUGGUUC	978	GAACCATG GGCTAGCTACAACGA AGGCATAG	20147
7500	AAGACAGU A CGAGAAGC	1000	GCTTCTCG GGCTAGCTACAACGA ACTGTCTT	20148
7629	UCAUGUCU A UCCAUAAC	1017	GTTATGGA GGCTAGCTACAACGA AGACATGA	20149
7760	CACUAGGU A CCGCAAAG	1030	CTTTGCGG GGCTAGCTACAACGA ACCTAGTG	20150
7946	UUGGUGUU A CUAUAUGG	1051	CCATATAG GGCTAGCTACAACGA AACACCAA	20151
7949	GUGUUAU A UAUGGCAA	1052	TTGCCATA GGCTAGCTACAACGA AGTAACAC	20152
7951	GUUACUAU A UGGCAACC	1053	GGTTGCCA GGCTAGCTACAACGA ATAGTAAC	20153
7988	CAGAGGU A CACAAAGG	1056	CCTTTGTG GGCTAGCTACAACGA ACCCTCTG	20154
8036	GCAAAGUU A UGGAUGGA	1060	TCCATCCA GGCTAGCTACAACGA AACTTTGC	20155
8081	UGUGUUCU A CAGACCUU	1065	AAGGTCTG GGCTAGCTACAACGA AGAACACA	20156
8240	CUGCCCCU A CAUGCCGA	1087	TCGGCATG GGCTAGCTACAACGA AGGGGCAG	20157
8285	ACGCCGU A UGGGGGGG	1091	CCCCCCA GGCTAGCTACAACGA ACCGGCGT	20158
8339	CGAGAUGU A UUGGUGA	1097	TCACCCAA GGCTAGCTACAACGA ACATCTCG	20159
8370	AAUGUGGU A CAUUCAGU	1102	ACTGAATG GGCTAGCTACAACGA ACCACATT	20160
8383	CAGUGAAU A UGACCAGC	1105	GCTGGTCA GGCTAGCTACAACGA ATTCACTG	20161
8441	ACCCCAAU A CGAGGAAG	1108	CTTCCTCG GGCTAGCTACAACGA ATTGGGGT	20162
8549	GCGUGAGU A CAGUUCGA	1117	TCGATGGA GGCTAGCTACAACGA ATCACGCG	20163
8585	CCACCCAU A UAGAACCU	1120	AGGTTCTA GGCTAGCTACAACGA ATGGGTGG	20164
8600	CUGGAACU A UCACGGCA	1122	TGCCGTGA GGCTAGCTACAACGA AGTTCAG	20165
8612	CGGCAGUU A UGAUGUGA	1125	TCACATCA GGCTAGCTACAACGA AACTGCCG	20166
8701	CGAAUGUU A CCACCAUG	1136	CATGGTGG GGCTAGCTACAACGA AACATTCTG	20167
8725	CUGACACU A CUCCUUC	1137	GAAGGGAG GGCTAGCTACAACGA AGTGTGAG	20168
8801	AGUGAAGU A CGUGCUCA	1144	TGAGCACG GGCTAGCTACAACGA ACTTCACT	20169
9041	UUGCAUUU A CAACAUGA	1173	TCATGTTG GGCTAGCTACAACGA AAATGCAA	20170
9236	ACUGGGUU A CAUCCUGC	1199	GCAGGATG GGCTAGCTACAACGA AACCAGT	20171
9278	CAAGAUCU A UGCUGAUG	1203	CATCAGCA GGCTAGCTACAACGA AGATCTTG	20172
9404	GCUCACCU A UCGUCACA	1215	TGTGACGA GGCTAGCTACAACGA AGGTGAGC	20173
9466	UGGAUGUU A UCUCAGAG	1221	TCTGGAGA GGCTAGCTACAACGA AACATCCA	20174
9509	UGUCACCU A CGCCCUAA	1227	TTAGGGCG GGCTAGCTACAACGA AGGTGACA	20175
9745	UCAAUGCU A UGUCAAAG	1249	CTTTGACA GGCTAGCTACAACGA AGCATGGA	20176
9797	UGGAUGGU A UGAUUGGC	1255	GCCAATCA GGCTAGCTACAACGA ACCATCCA	20177
9915	GCUCGCAU A UCUCACAG	1273	CCTGGAGA GGCTAGCTACAACGA ATGCGAGC	20178
9968	UAAGUCUU A UGCCCAGA	1282	TCTGGGCA GGCTAGCTACAACGA AAGACTTA	20179
9992	GCUCUGU A CUUCCACA	1285	TGTGGAAG GGCTAGCTACAACGA AAGAGAGC	20180
10063	GGGUGCCU A CCGGAAGA	1295	TCTTCCGG GGCTAGCTACAACGA AGGGACCC	20181
10208	CGUCCCAU A UUCAGGAA	1304	TTCTTGAA GGCTAGCTACAACGA ATGGGACG	20182
10294	AGGUGGCU A UCAACCAA	1310	TTGGTTGA GGCTAGCTACAACGA AGCCACCT	20183
10331	UGAGAAGU A UGUGGAUU	1315	AATCCACA GGCTAGCTACAACGA ACTTCTCA	20184
10340	UGUGGAUU A CAUGAGUU	1317	AACTCATG GGCTAGCTACAACGA AATCCACA	20185
10361	AAAGAGAU A UGAAGACA	1321	TGTCTTCA GGCTAGCTACAACGA ATCTCTTT	20186
10392	GACACAGU A CUGUAGAU	1325	ATCTACAG GGCTAGCTACAACGA ACTGTGTC	20187
10401	CUGUAGAU A UUAUAUCA	1327	TGATTAAA GGCTAGCTACAACGA ATCTACAG	20188
10426	UAGACAAU A UAAGUAUG	1335	CATATATA GGCTAGCTACAACGA ATTGTCTA	20189
10432	AUAUAAGU A UGCAUAAA	1337	TTTATGCA GGCTAGCTACAACGA ACTTATAT	20190
10452	GUAGUUUU A UAGUAGUA	1343	TACTACTA GGCTAGCTACAACGA AAAACTAC	20191
10460	AUAGUAGU A UUAUGUGG	1346	CCACTAAA GGCTAGCTACAACGA ACTACTAT	20192
10679	ACCACGCU A CGGCGUGC	1375	GCACGCGG GGCTAGCTACAACGA AGCGTGGT	20193
10689	GGCGUGCU A CUCUGCGG	1376	CCGAGAGG GGCTAGCTACAACGA AGCAGGCC	20194
10928	AACAGCAU A UUGACACC	1397	GGTGTCAA GGCTAGCTACAACGA ATGCTGTT	20195
63	CAAUUAAC A CAGUGCGA	1412	TCGCACTG GGCTAGCTACAACGA GTTAATTG	20196
85	UUCUUAAG A CGAAGAUC	1416	GATCTTCG GGCTAGCTACAACGA GCTAAGAA	20197
265	UCAGGUUC A CAGCAAUU	1445	AATTGCTG GGCTAGCTACAACGA GAACCTGA	20198
335	GAUGAAAC A CCUUCUGA	1457	TCAGAAAG GGCTAGCTACAACGA GTTTCATC	20199
436	UUGCAGUC A UGAUUGGC	1473	GCCAATCA GGCTAGCTACAACGA GACTGCAA	20200
523	CUGACGUC A CAGAUGUC	1489	GACATCTG GGCTAGCTACAACGA GACGTCAG	20201
532	CAGAUGUC A UCACGAUU	1491	AATCGTGA GGCTAGCTACAACGA GACATCTG	20202
535	AUGUCAUC A CGAUUCCA	1492	TGGAATCG GGCTAGCTACAACGA GATGACAT	20203
568	ACCUAUGC A UUGUCAGA	1500	TCTGACAA GGCTAGCTACAACGA GCATAGGT	20204
595	UGGGAUAC A UGUGCGAU	1503	ATCGCACA GGCTAGCTACAACGA GTATCCCA	20205
613	AUACUAUC A CUUAUGAA	1505	TTCATAAG GGCTAGCTACAACGA GATAGTAT	20206

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658	CAGAAGAC A UCGACUGU	1514	ACAGTCGA GGCTAGCTACAACGA GTCTTCTG	20207
673	GUUGGUGC A CAAAGUCA	1516	TGACTTTG GGCTAGCTACAACGA GCACCAAC	20208
709	GAAGAUGC A CCAAGACA	1522	TGCTTTGG GGCTAGCTACAACGA GCATCTTC	20209
717	ACCAAGAC A CGCCACUC	1525	GAGTGGCG GGCTAGCTACAACGA GTCTTGGT	20210
722	GACACGCC A CUCAAGAC	1527	GTCTTGAG GGCTAGCTACAACGA GGCCTGTC	20211
744	CGGAGGUC A CUGACAGU	1531	ACTGTGAG GGCTAGCTACAACGA GACCTCCG	20212
759	GUGCAGAC A CACGGAGA	1535	TCTCCGTG GGCTAGCTACAACGA GTCTGCAC	20213
761	GCAGACAC A CGGAGAAA	1536	TTTCTCCG GGCTAGCTACAACGA GTGTCTGC	20214
772	GAGAAAGC A CUCUAGCG	1537	CGCTAGAG GGCTAGCTACAACGA GCTTCTCTC	20215
808	UGGACAGC A CCAAGGCC	1543	GGCCTTGG GGCTAGCTACAACGA GCTGTCCA	20216
817	CCAAGGCC A CAAGGUU	1547	ATACCTTG GGCTAGCTACAACGA GGCCTTGG	20217
843	ACAGAAUC A UGGAUCUU	1550	AAGATCCA GGCTAGCTACAACGA GATTCTGT	20218
886	CAGCCGUC A UUGGUUGG	1560	CCAACCAA GGCTAGCTACAACGA GACGGCTG	20219
910	GGAGCAAC A CCAUGCAG	1563	CTGCATGG GGCTAGCTACAACGA GTTGTCTC	20220
913	GCAACACC A UGCAGAGA	1565	TCTCTGCA GGCTAGCTACAACGA GGTGTGTC	20221
1023	GGAGCAAC A UGGGUGGA	1586	TCCACCCA GGCTAGCTACAACGA GTTGCTCC	20222
1066	UGACUAUC A UGUCUAG	1591	CTTAGACA GGCTAGCTACAACGA GATAGTCA	20223
1087	AGCCUACC A UCGAUGUG	1597	CACATCGA GGCTAGCTACAACGA GGTAGGCT	20224
1174	AUCUCUCC A CCAAAGCU	1611	AGCTTTGG GGCTAGCTACAACGA GGAGAGAT	20225
1195	GCCCCACC A UGGGAGAA	1618	TTCTCCCA GGCTAGCTACAACGA GGTCGGGC	20226
1208	AGAAGCUC A CAAUGACA	1620	TGTCATTG GGCTAGCTACAACGA GAGCTTCT	20227
1303	AAGGAAGC A UUGACACA	1635	TGTGTCAA GGCTAGCTACAACGA GCTTCTTT	20228
1309	GCAUUGAC A CAUGCGCC	1636	GGCGCATG GGCTAGCTACAACGA GTCAATGC	20229
1311	AUUGACAC A UGCGCCAA	1637	TTGGCGCA GGCTAGCTACAACGA GTGTCAAT	20230
1354	GAAGAAC C AUCUUGAAA	1648	TTTCAAGA GGCTAGCTACAACGA GGTCTTTC	20231
1387	AAGUGGCC A UUUUUGUC	1652	GACAAAAA GGCTAGCTACAACGA GGCCACTT	20232
1397	UUUUUGUC A UGGACCAA	1654	TTGGTCCA GGCTAGCTACAACGA GGACAAAA	20233
1421	GGAGUCGC A CGGAAACU	1659	AGTTTCCG GGCTAGCTACAACGA GCGACTCC	20234
1435	ACUACUCC A CACAGGUU	1663	AACCTGTG GGCTAGCTACAACGA GGAGTAGT	20235
1437	UACUCCAC A CAGGUUGG	1664	CCAACCTG GGCTAGCTACAACGA GTGGAGTA	20236
1450	UUGGAGCC A CUCAGGCA	1667	TGCCTGAG GGCTAGCTACAACGA GGCTCCAA	20237
1471	GAUUCAGC A UCACUCCU	1672	AGGAGTGA GGCTAGCTACAACGA GCTGAATC	20238
1474	UCAGCAUC A CUCCUGCG	1673	CGCAGGAG GGCTAGCTACAACGA GATGCTGA	20239
1491	GCGCCUUC A UACACACU	1679	AGTGTGTA GGCTAGCTACAACGA GAAGGCGC	20240
1495	CUUCAUAC A CACUAAAG	1680	CTTTAGTG GGCTAGCTACAACGA GTATGAAG	20241
1497	UCAUACAC A CUAAAGCU	1681	AGCTTTAG GGCTAGCTACAACGA GTGTATGA	20242
1542	UGUGAAC C ACGUCAGG	1687	CCTGACCG GGCTAGCTACAACGA GGTTTACA	20243
1558	GGAUUGAC A CCAAUGCA	1689	TGCATTGG GGCTAGCTACAACGA GTCAATCC	20244
1566	ACCAAUGC A UACUACGU	1692	ACGTAGTA GGCTAGCTACAACGA GCATTGGT	20245
1607	CUUGGUCC A UCGUGAGU	1698	ACTCAGCA GGCTAGCTACAACGA GAACCAAG	20246
1621	AGUGGUUC A UGGACCUC	1699	GAGGTCCA GGCTAGCTACAACGA GAACCACT	20247
1701	GAGGAACC A CACGCCAC	1713	GTGGCGTG GGCTAGCTACAACGA GGTTCCTC	20248
1703	GGAAACC A CGCCACGA	1714	TCGTGGCG GGCTAGCTACAACGA GTGGTTCC	20249
1708	CACACGCC A CGAAGCAG	1716	CTGCTTCG GGCTAGCTACAACGA GGCGTGTG	20250
1728	GUGAUAGC A UUGGGCUC	1719	GAGCCCAA GGCTAGCTACAACGA GCTATCAC	20251
1737	UUGGGCUC A CAAGAGGG	1721	CCCTCTTG GGCTAGCTACAACGA GAGCCCAA	20252
1754	AGCUCUGC A UCAAGCUU	1725	AAGCTTGA GGCTAGCTACAACGA GCAGAGCT	20253
1774	CUGGAGCC A UUCUGUG	1730	CACAGGAA GGCTAGCTACAACGA GGCTCCAG	20254
1798	CAAGCAAC A CUGUCAAG	1735	CTTGACAG GGCTAGCTACAACGA GTTGCTTG	20255
1820	GUCGGGUC A UUGAAGU	1738	ACTTCAAA GGCTAGCTACAACGA GACCCGAC	20256
1918	CCGAGAC A CAGGUCAC	1752	GTGACCTG GGCTAGCTACAACGA GTCTGCGG	20257
1925	CACAGGUC A CGGCACUG	1754	CAGTGCCG GGCTAGCTACAACGA GACCTGTG	20258
1930	GUCACGGC A CUGUGGUG	1755	CACCACAG GGCTAGCTACAACGA GCCGTGAC	20259
1954	UGCAGUAC A CUGGCACG	1758	CGTGCCAG GGCTAGCTACAACGA GTACTGCA	20260
1960	ACACUGGC A CGGAUGGA	1760	TCCATCCG GGCTAGCTACAACGA GCCAGTGT	20261
2001	GUGGCUUC A UUGAACGA	1769	TCGTTCAA GGCTAGCTACAACGA GAAGCCAC	20262
2035	GAUUGGUC A CUGUCAAC	1775	GTTGACAG GGCTAGCTACAACGA GACCAATC	20263
2062	CAGUGGCC A CGGCCAAC	1783	GTTGGCCG GGCTAGCTACAACGA GGCCACTG	20264
2097	UUGGAACC A CCCUUGG	1790	CCAAAGGG GGCTAGCTACAACGA GGTTCCAA	20265
2112	GGAGACUC A UACAUAGU	1795	ACTATGTA GGCTAGCTACAACGA GAGTCTCC	20266
2116	ACUCAUAC A UAGUGGUG	1796	CACCACTA GGCTAGCTACAACGA GTATGAGT	20267
2150	GAUCAAUC A CCAUUGGC	1801	GCCAATGG GGCTAGCTACAACGA GATTGATC	20268

2153	CAUUCACC A UUGGCACA	1803	TGTGCCAA GGCTAGCTACAACGA GGTGATTG	20269
2159	CCAUUGGC A CAAGUCUG	1804	CAGACTTG GGCTAGCTACAACGA GCCAATGG	20270
2176	GAAGCAGC A UUGGCAAA	1808	TTTGCCAA GGCTAGCTACAACGA GCTGCTTC	20271
2197	UUACAACC A CCCUAAA	1814	TTTGAGGG GGCTAGCTACAACGA GGTGTGTA	20272
2236	UAGGAGAC A CAGCUUGG	1824	CCAAGCTG GGCTAGCTACAACGA GTCTCCTA	20273
2272	GGUGUUC A CCUCAGUU	1829	AACTGAGG GGCTAGCTACAACGA GAACACCC	20274
2294	GGCUGUCC A UCAAGUGU	1835	ACACTTGA GGCTAGCTACAACGA GGACAGCC	20275
2313	GGAGGAGC A UUCCGCUC	1837	GAGCGGAA GGCTAGCTACAACGA GCTCCTCC	20276
2322	UUCCGCUC A CUGUUCGG	1840	CCGAACAG GGCTAGCTACAACGA GAGCGGAA	20277
2335	UCGGAGGC A UGUCCUGG	1842	CCAGGACA GGCTAGCTACAACGA GCGTCCGA	20278
2386	GGAUUGGC A UCAAUGCU	1851	AGCATTGA GGCTAGCTACAACGA GCCCATCC	20279
2407	AUAGGUCC A UAGCUCUC	1855	GAGAGCTA GGCTAGCTACAACGA GGACCTAT	20280
2416	UAGCUCUC A CGUUCUC	1858	GAGAAACG GGCTAGCTACAACGA GAGAGCTA	20281
2465	GAACGUGC A CGCUGACA	1868	TGTCAGCG GGCTAGCTACAACGA GCACGTTC	20282
2473	AGCUGAC A CUGGGUGU	1870	ACACCAG GGCTAGCTACAACGA GTCAGCGT	20283
2485	GGUGUGCC A UAGACAUC	1873	GATGTCTA GGCTAGCTACAACGA GGCACACC	20284
2491	CCAUAGAC A UCAGCCGG	1874	CCGGCTGA GGCTAGCTACAACGA GTCTATGG	20285
2530	GAGUGUUC A UACACAAU	1879	ATTGTGTA GGCTAGCTACAACGA GAACACTC	20286
2534	GUUCAUAC A CAAUGAUG	1880	CATCATTG GGCTAGCTACAACGA GTATGAAC	20287
2586	GAAACGCC A CAAGGCCU	1889	AGGCCTTG GGCTAGCTACAACGA GCGGTTTC	20288
2605	CCAAGAUC A UUCAGAAA	1895	TTTCTGAA GGCTAGCTACAACGA GATCTTGG	20289
2618	GAAAGCUC A UAAGGAAG	1898	CTTCCTTA GGCTAGCTACAACGA GAGCTTTC	20290
2663	ACUGGAGC A UCAAAUGU	1904	ACATTGTA GGCTAGCTACAACGA GCTCCAGT	20291
2698	AGCUGAAC A CUCUUUUG	1908	CAAAGAG GGCTAGCTACAACGA GTTCAGCT	20292
2769	AAGUCAGC A CCUAAACG	1916	CGTTTAGG GGCTAGCTACAACGA GCTGACTT	20293
2782	AACGCCUC A CCGCCACC	1921	GGTGGCGG GGCTAGCTACAACGA GAGGCGTT	20294
2788	UCACGCC A CCACGGAA	1924	TTCCGTGG GGCTAGCTACAACGA GCGGTTGA	20295
2791	CCGCCACC A CGAAAAA	1926	TTTTTCCG GGCTAGCTACAACGA GGTGGCGG	20296
2844	UUAUUUGC A CCAGAACU	1930	AGTTCTGG GGCTAGCTACAACGA GCAAATAA	20297
2863	CCAACAAC A CCUUUGUG	1937	CACAAAGG GGCTAGCTACAACGA GTTGTGTT	20298
2956	UUGGUCUC A CCAGCACU	1949	AGTGCTGG GGCTAGCTACAACGA GAGACCAA	20299
2962	UCACCAGC A CUCGGAUG	1952	CATCCGAG GGCTAGCTACAACGA GCTGGTGA	20300
2995	AGAGCAAC A CAACUGAA	1958	TTCAGTTG GGCTAGCTACAACGA GTTGCTCT	20301
3019	CGAAGAUC A UUGGAACG	1962	CGTTCCAA GGCTAGCTACAACGA GATCTTCG	20302
3053	GGCGAUCC A CAGUGACC	1968	GGTCACTG GGCTAGCTACAACGA GGATCGCC	20303
3135	GUCAAAUC A UGUACGUG	1981	CACGTACA GGCTAGCTACAACGA GATTTGAC	20304
3155	UGAGACGC A UACCUUGU	1984	ACAAGGTA GGCTAGCTACAACGA GCGTCTCA	20305
3205	UACCAGUC A CACUGGCG	1992	CGCCAGTG GGCTAGCTACAACGA GACTGGTA	20306
3207	CCAGUCAC A CUGGCGGG	1993	CCC GCCAG GGCTAGCTACAACGA GTGACTGG	20307
3219	GCGGGACC A CGAAGCAA	1996	TTGCTTCG GGCTAGCTACAACGA GGTCCCGC	20308
3230	AAGCAAUC A CAAUCGGA	1998	TCCGATTG GGCTAGCTACAACGA GATTGCTT	20309
3255	UACAAGAC A CAAAACCA	2003	TGGTTTGG GGCTAGCTACAACGA GTCTTGTA	20310
3270	CAGGGCCC A UGGGACGA	2009	TCGTCCCA GGCTAGCTACAACGA GGGCCCTG	20311
3325	CUACGGUC A CCUGAGU	2017	ACTCAGGG GGCTAGCTACAACGA GACCGTAG	20312
3347	CUGCGGAC A CCGUGGAC	2022	GTCCACGG GGCTAGCTACAACGA GTCCGCAG	20313
3361	GACCUGCC A CUCGCACC	2027	GGTGCGAG GGCTAGCTACAACGA GGCAGGTC	20314
3367	CCACUCGC A CCACCACA	2029	TGTGGTGG GGCTAGCTACAACGA GCGAGTGG	20315
3370	CUCGCACC A CCACAGAG	2031	CTCTGTGG GGCTAGCTACAACGA GGTGCGAG	20316
3373	GCACCACC A CAGAGAGC	2033	GCTCTCTG GGCTAGCTACAACGA GGTGGTGC	20317
3418	GGAGCUGC A CCUUACCA	2039	TGGTAAGG GGCTAGCTACAACGA GCAGCTCC	20318
3426	ACCUUACC A CCACUGCG	2043	CGCAGTGG GGCTAGCTACAACGA GGTAAAGT	20319
3429	UUACCACC A CUGCGCUA	2045	TAGCGCAG GGCTAGCTACAACGA GGTGGTAA	20320
3480	AUCAGACC A CAGAGACA	2055	TGTCTCTG GGCTAGCTACAACGA GGTCTGAT	20321
3488	ACAGAGAC A UGAUGAAA	2057	TTTCATCA GGCTAGCTACAACGA GTCTCTGT	20322
3513	GUGCAGUC A CAAGUGAA	2062	TTCACTTG GGCTAGCTACAACGA GACTGCAC	20323
3583	UCUUGGCC A CCCAGGAG	2075	CTCCTGGG GGCTAGCTACAACGA GGCCAAGA	20324
3625	AGAUCAGC A UGCCAGCU	2086	AGCTGGCA GGCTAGCTACAACGA GCTGATCT	20325
3670	UUGGGGGC A UUACUUAC	2096	GTAAGTAA GGCTAGCTACAACGA GCCCCCAA	20326
3679	UUACUUAC A CUGAUGUG	2098	CACATCAG GGCTAGCTACAACGA GTAAGTAA	20327
3700	GCUAUGUC A UCUUGGUG	2101	CACCAAGA GGCTAGCTACAACGA GACATAGC	20328
3752	CGUGGUAC A CUUGGCGC	2107	GCGCCAAG GGCTAGCTACAACGA GTACCACG	20329
3763	UGGCGCUC A UGGCGACC	2110	GGTCGCCA GGCTAGCTACAACGA GAGCGCCA	20330

3801	AUGGUGGC A UCGUUUCU	2117	AGAAACGA GGCTAGCTACAACGA GCCACCAT	20331
3838	AGGAGAAC A UUUUGUUG	2124	CAACAAAA GGCTAGCTACAACGA GTTCTCCT	20332
3881	GGCUUAUC A CGAUGCCC	2129	GGGCATCG GGCTAGCTACAACGA GATAAGCC	20333
3930	UUGAAUUC A CUGGCGGU	2140	ACCGCCAG GGCTAGCTACAACGA GAATTCAA	20334
3961	UGAGAGCC A UAACAUUC	2145	GAATGTTA GGCTAGCTACAACGA GGCTCTCA	20335
3966	GCCAUAA C A UUCACAAC	2146	GTTGTGAA GGCTAGCTACAACGA GTTATGGC	20336
3970	UAACAUUC A CAACGACA	2147	TGTCGTTG GGCTAGCTACAACGA GAATGTTA	20337
3978	ACAACGAC A UCAAACGU	2149	ACGTTTGA GGCTAGCTACAACGA GTCGTTGT	20338
4014	CUGCUAAC A CCCGGGCU	2158	AGCCCCGG GGCTAGCTACAACGA GTTAGCAG	20339
4171	UCAACCCC A UGAUCCUU	2188	AAGGATCA GGCTAGCTACAACGA GGGGTTGA	20340
4197	CUGAUUGC A UGUGAUCC	2194	GGATCACA GGCTAGCTACAACGA GCAATCAG	20341
4267	UGUUUGCC A UCGUCGGA	2208	TCCGACGA GGCTAGCTACAACGA GGCAAACA	20342
4294	AGCUUGAC A UUGACUCC	2212	GGAGTCAA GGCTAGCTACAACGA GTCAAGCT	20343
4303	UUGACUCC A UGGCCAUU	2215	AATGGCCA GGCTAGCTACAACGA GGAGTCAA	20344
4309	CCAUGGCC A UUCCAAUG	2217	CATTGGAA GGCTAGCTACAACGA GGCCATGG	20345
4333	CGGGGCUC A UGUUUGCU	2222	AGCAAACA GGCTAGCTACAACGA GAGCCCCG	20346
4396	CGGCGGAC A UUUCUGG	2228	CCAGGAAA GGCTAGCTACAACGA GTCCGCCG	20347
4480	UCCAGCUC A UGAAUGAU	2239	ATCATTCA GGCTAGCTACAACGA GAGCTGGA	20348
4497	CCAGGAGC A CCUUGGAA	2242	TTCCAAGG GGCTAGCTACAACGA GCTCTGG	20349
4549	GUGCGUAC A CCCCUGG	2249	CCAGGGGG GGCTAGCTACAACGA GTACGCAC	20350
4603	UCCAAUAC A CAAAGAGA	2265	TCCTTTTG GGCTAGCTACAACGA GTATTGGA	20351
4630	UGUGGGAC A CUCCCUCA	2267	TGAGGGAG GGCTAGCTACAACGA GTCCACA	20352
4638	ACUCCUC A CCAAAGGA	2272	TCCTTTGG GGCTAGCTACAACGA GAGGGAGT	20353
4663	AGGGGGAC A CGACCACC	2276	GGTGGTCG GGCTAGCTACAACGA GTCCCCCT	20354
4669	ACACGACC A CCGGCGUC	2278	GACGCCGG GGCTAGCTACAACGA GGTGCTGT	20355
4687	ACAGGAUC A UGACUCGU	2282	ACGAGTCA GGCTAGCTACAACGA GATCCTGT	20356
4751	UGUUUUC A CACCUUU	2290	AAAGGGTG GGCTAGCTACAACGA GGAAAACA	20357
4753	UUUUCAC A CCCUUGG	2291	CCAAAGGG GGCTAGCTACAACGA GTGGAAA	20358
4763	CCUUUGGC A UACAACAA	2295	TTGTTGTA GGCTAGCTACAACGA GCCAAAGG	20359
4812	CUGGACCC A UACUGGG	2305	CCCTAGTA GGCTAGCTACAACGA GGGTCCAG	20360
4871	AUUGCAGC A CAAGUGGA	2314	TCCACTTG GGCTAGCTACAACGA GCTGCAAT	20361
4965	UUCAAAAC A CCUGAAGG	2326	CCTTCAGG GGCTAGCTACAACGA GTTTTGAA	20362
5005	ACUUCCCC A CUGGAACA	2335	TGTTCCAG GGCTAGCTACAACGA GGGGAAGT	20363
5013	ACUGGAAC A UCAGGCUC	2337	GAGCCTGA GGCTAGCTACAACGA GTTCCAGT	20364
5022	UCAGGCUC A CCAUAGU	2340	ACTATTGG GGCTAGCTACAACGA GAGCCTGA	20365
5074	AUGGAGUC A UAAUGCCC	2346	GGGCATTA GGCTAGCTACAACGA GACTCCAT	20366
5091	AACGCGUC A UACAUAAG	2351	CTTATGTA GGCTAGCTACAACGA GAGCCGTT	20367
5095	GCUCAUAC A UAAGCGCG	2352	CGCGCTTA GGCTAGCTACAACGA GTATGAGC	20368
5179	AACAGAUC A CUGUACUG	2364	CAGTACAG GGCTAGCTACAACGA GATCTGTT	20369
5195	GGAUCUCC A UCCCGGCG	2369	CGCCGGGA GGCTAGCTACAACGA GGAGATCC	20370
5229	AUUCUGCC A CAGAUCAU	2376	ATGATCTG GGCTAGCTACAACGA GGCAGAAT	20371
5236	CACAGAUC A UCAAAGAG	2378	CTCTTTGA GGCTAGCTACAACGA GATCTGTG	20372
5248	AAGAGGCC A UAAACAGA	2381	TCTGTTTA GGCTAGCTACAACGA GGCCTCTT	20373
5280	GUGCUAGC A CCAACCAG	2387	CTGGTTGG GGCTAGCTACAACGA GCTAGCAC	20374
5316	GCUGAAGC A CUGAGAGG	2395	CCTCTCAG GGCTAGCTACAACGA GCTTCAGC	20375
5332	GACUGCCC A UCCGGUAC	2400	GTACCGGA GGCTAGCTACAACGA GGGCAGTC	20376
5346	UACCAGAC A UCCGAGU	2404	ACTGCGGA GGCTAGCTACAACGA GTCTGGTA	20377
5366	CAGAGAAC A UAAUGGAA	2410	TTCCATTA GGCTAGCTACAACGA GTTCTCTG	20378
5392	UUGAUGUC A UGUGUCAU	2411	ATGACACA GGCTAGCTACAACGA GACATCAA	20379
5399	CAUGUGUC A UGCUACCC	2412	GGGTAGCA GGCTAGCTACAACGA GACACATG	20380
5410	CUACCCUC A CCCACAGG	2417	CCTGTGGG GGCTAGCTACAACGA GAGGGTAG	20381
5414	CCUCACCC A CAGGCUGA	2420	TCAGCCTG GGCTAGCTACAACGA GGGTGAGG	20382
5432	GUCUCCUC A CAGGGUGC	2426	GCACCCTG GGCTAGCTACAACGA GAGGAGAC	20383
5474	UGAGGCUC A UUUCACCG	2434	CGGTGAAA GGCTAGCTACAACGA GAGCCTCA	20384
5479	CUCAUUUC A CCGACCCA	2435	TGGGTCGG GGCTAGCTACAACGA GAAATGAG	20385
5494	CAGCUAGC A UUGCAGCA	2441	TGCTGCAA GGCTAGCTACAACGA GCTAGCTG	20386
5512	GAGGUUAC A UUUCACA	2444	TGTGGAAA GGCTAGCTACAACGA GTAACCTC	20387
5518	ACAUUUC A CAAAGGUC	2446	GACCTTTG GGCTAGCTACAACGA GGAAATGT	20388
5554	CAUAUUC A UGACAGCC	2450	GGCTGTCA GGCTAGCTACAACGA GAATATTG	20389
5563	UGACAGCC A CCCACCA	2453	TGTTGGGG GGCTAGCTACAACGA GGCTGTCA	20390
5568	GCCACCCC A CCAGGCAC	2457	GTGCCTGG GGCTAGCTACAACGA GGGGTGGC	20391
5575	CACCAGGC A CUUCAGAU	2460	ATCTGAAG GGCTAGCTACAACGA GCCTGGTG	20392

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5586	UCAGAUCC A UUCCGAGA	2464	TCTGGGAA GGCTAGCTACAACGA GGATCTGA	20393
5604	UCCAAUUC A CCAAUUC	2470	GAAATTGG GGCTAGCTACAACGA GAATTGGA	20394
5668	AAUGGAUC A CAGAAUAC	2482	GTATTCTG GGCTAGCTACAACGA GATCCATT	20395
5677	CAGAAUAC A CCGGAAG	2484	CTTCCCGG GGCTAGCTACAACGA GTATTCTG	20396
5833	UUGUUAUC A CAACAGAC	2503	GTCTGTTG GGCTAGCTACAACGA GATAACAA	20397
5842	CAACAGAC A UAUCUGAA	2506	TTCAGATA GGCTAGCTACAACGA GTCTGTTG	20398
5911	AACCAACC A UCAUAACA	2517	TGTTATGA GGCTAGCTACAACGA GGTGTTG	20399
5914	CAACCAUC A UAACAGAA	2518	TTCTGTTA GGCTAGCTACAACGA GATGGTTG	20400
5952	GGAGAACC A UCUGCAGU	2523	ACTGCAGA GGCTAGCTACAACGA GGTCTCTC	20401
6044	UGGGGGGC A CACGAAUG	2536	CATTCTGT GGCTAGCTACAACGA GCCCCCCA	20402
6046	GGGGGCAC A CGAAUGAA	2537	TTCATTCT GGCTAGCTACAACGA GTGCCCCC	20403
6074	CUUCGCCC A UUGGACUG	2542	CAGTCCAA GGCTAGCTACAACGA GGGCGAAG	20404
6087	ACUGAGGC A CGAAUCAU	2544	ATGATTCT GGCTAGCTACAACGA GCCTCAGT	20405
6094	CACGAAUC A UGCUGGAC	2545	GTCCAGCA GGCTAGCTACAACGA GATTCTGT	20406
6106	UGGACAAC A UCAACAUG	2548	CATGTTGA GGCTAGCTACAACGA GTTGTTCA	20407
6112	ACAUCAAC A UGCCAAAC	2550	GTTTGGCA GGCTAGCTACAACGA GTTGATGT	20408
6169	UAUAUACC A UGGAUGGG	2562	CCCATCCA GGCTAGCTACAACGA GGTATATA	20409
6282	GGAGUGUC A UACCACGA	2579	TCGTGGTA GGCTAGCTACAACGA GACACTCC	20410
6287	GUCAUACC A CGACCGGA	2581	TCCGGTCG GGCTAGCTACAACGA GGTATGAC	20411
6325	GGACAAC A CAAUUUA	2587	TAAATTTG GGCTAGCTACAACGA GTTGTCTC	20412
6358	UGGAAGUC A UCACGAAG	2591	CTTCTGTA GGCTAGCTACAACGA GACTTCCA	20413
6361	AAGUCAUC A CGAAGCUU	2592	AAGCTTCG GGCTAGCTACAACGA GATGACTT	20414
6425	CUCGGAUC A CCAGGCAC	2600	GTGCCTGG GGCTAGCTACAACGA GATCCGAG	20415
6432	CACCAGGC A CUAAGGC	2603	GCCTTTAG GGCTAGCTACAACGA GCCTGGTG	20416
6484	UAGGGCUC A UUGAGGUU	2612	AACCTCAA GGCTAGCTACAACGA GAGCCCTA	20417
6512	GCCUGAGC A CUUCAUGG	2616	CCATGAAG GGCTAGCTACAACGA GCTCAGGC	20418
6517	AGCACUUC A UGGGAAG	2618	CTTCCCCA GGCTAGCTACAACGA GAAGTGCT	20419
6528	GGGAAGAC A UGGGAAGC	2619	GCTTCCCC GGCTAGCTACAACGA GTCTTCCC	20420
6537	UGGAAGAC A CUUGACAC	2620	GTGTCAAG GGCTAGCTACAACGA GCTTCCCA	20421
6544	CACUUGAC A CCAUGUAC	2622	GTACTAGG GGCTAGCTACAACGA GTCAAGTG	20422
6547	UUGACACC A UGUACGUU	2624	AACGTACA GGCTAGCTACAACGA GGTGTCAA	20423
6562	UUGUGGCC A CUGCAGAG	2626	CTCTGCAG GGCTAGCTACAACGA GGCCACAA	20424
6587	AAGAGCUC A CAGAAUGG	2630	CCATTCTG GGCTAGCTACAACGA GAGCTCTT	20425
6661	UGAUGACC A UGGAGUA	2647	TACTCCCA GGCTAGCTACAACGA GGTCTATC	20426
6682	UCCUCCUC A UGCAGCGG	2653	CCGCTGCA GGCTAGCTACAACGA GAGGAGGA	20427
6697	GGAGGGC A UUGGAAAG	2655	CTTTCCAA GGCTAGCTACAACGA GCCCTTCC	20428
6889	UUUGUGUC A UGACCCUU	2688	AAGGTTCA GGCTAGCTACAACGA GACACAAA	20429
6952	AGAGUGAC A UAAGCAGU	2699	ACTGCTTA GGCTAGCTACAACGA GTCATCTT	20430
7000	AUUUCAGC A UGGGAGAG	2704	CTCTCCCA GGCTAGCTACAACGA GCTGAAAT	20431
7044	GCCUGGUC A CUGUACGC	2712	GCGTACAG GGCTAGCTACAACGA GACCAGGC	20432
7072	CGGUCCUC A CUCCACUG	2719	CAGTGGAG GGCTAGCTACAACGA GAGGACCG	20433
7077	CUCACUCC A CUGCUAAA	2722	TTTAGCAG GGCTAGCTACAACGA GGAGTGAG	20434
7088	GUAAAGC A UUUGAUCA	2725	TGATCAAA GGCTAGCTACAACGA GCTTTAGC	20435
7096	AUUUGAUC A CGUCAGAU	2726	ATCTGACG GGCTAGCTACAACGA GATCAAAT	20436
7108	CAGAUUAC A UCAACACC	2728	GGTGTGTA GGCTAGCTACAACGA GTAATCTG	20437
7114	ACAUCAAC A CCUCAUUG	2730	CAATGAGG GGCTAGCTACAACGA GTTGATGT	20438
7119	AACACCUC A UUGACCUC	2733	GAGGTCAA GGCTAGCTACAACGA GAGGTGTT	20439
7149	GCAAGUGC A CUUUCAC	2739	GTGAATAG GGCTAGCTACAACGA GCACTTGC	20440
7156	CACUAUUC A CACUCGCG	2741	CGCGAGTG GGCTAGCTACAACGA GAATAGTG	20441
7158	CUAUUCAC A CUCGCGCG	2742	CGCGCGAG GGCTAGCTACAACGA GTGAATAG	20442
7234	GACAAGUC A CCCUACC	2758	GGTGAGGG GGCTAGCTACAACGA GACTTGTC	20443
7240	UCACCCUC A CCGUACG	2762	CGTAACGG GGCTAGCTACAACGA GAGGGTGA	20444
7263	GCGGCAAC A CUCCUUUU	2766	AAAAGGAG GGCTAGCTACAACGA GTTGCCGC	20445
7277	UUUUUGCC A CUAUGCCU	2771	AGGCATAG GGCTAGCTACAACGA GGCAAAA	20446
7288	AUGCCUAC A UGUUCCCC	2775	GGGAACCA GGCTAGCTACAACGA GTAGGCAT	20447
7351	CCGGAUUC A UGAAGAAC	2788	GTTCTTCA GGCTAGCTACAACGA GATTCCGG	20448
7375	UGGAUGGC A UCGUGGCC	2790	GGCCACGA GGCTAGCTACAACGA GCCATCCA	20449
7384	UCGUGGCC A CGGACGUC	2792	GACGTCCG GGCTAGCTACAACGA GGCCACGA	20450
7408	UAGAGCGC A CCACACCC	2796	GGGTGTGG GGCTAGCTACAACGA GCGCTCTA	20451
7411	AGCGCACC A CACCAUUC	2798	GATGGGTG GGCTAGCTACAACGA GGTGCGCT	20452
7413	CGCACAC A CCAUCAU	2799	ATGATGGG GGCTAGCTACAACGA GTGGTGGG	20453
7417	CCACACCC A UCAUGCAG	2802	CTGCATGA GGCTAGCTACAACGA GGGTGTGG	20454

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7420	CACCCAUC A UGCAGAAG	2803	CTTCTGCA GGCTAGCTACAACGA GATGGGTG	20455
7444	GACAGAUC A UGCUGAUC	2806	GATCAGCA GGCTAGCTACAACGA GATCTGTC	20456
7522	UUUUGAUC A CGGCCGCA	2818	TGCGGCCG GGCTAGCTACAACGA GATCAAAA	20457
7585	CAACUGCC A UCGGACUC	2829	GAGTCCGA GGCTAGCTACAACGA GGCAGTTG	20458
7598	ACUCUGCC A CAUCAUGC	2833	GCATGATG GGCTAGCTACAACGA GGCAGAGT	20459
7600	UCUGCCAC A UCAUGCGU	2834	ACGCATGA GGCTAGCTACAACGA GTGGCAGA	20460
7603	GCCACAUC A UGCGUGGG	2835	CCCACGCA GGCTAGCTACAACGA GATGTGGC	20461
7623	UGGUUGUC A UGUCUAUC	2836	GATAGACA GGCTAGCTACAACGA GACAACCA	20462
7633	GUCUAUCC A UAACAUGG	2839	CCATGTTA GGCTAGCTACAACGA GGATAGAC	20463
7638	UCCAUAAC A UGGACACU	2840	AGTGTTCA GGCTAGCTACAACGA GTTATGGA	20464
7644	ACAUGGAC A CUCAUAAA	2841	TTTATGAG GGCTAGCTACAACGA GTCCATGT	20465
7648	GGACACUC A UAAAGAAC	2843	GTTCTTTA GGCTAGCTACAACGA GAGTGTCC	20466
7657	UAAAGAAC A UGGAAAAA	2844	TTTTTCCA GGCTAGCTACAACGA GTTCTTTA	20467
7699	AAGGACGC A CCUUGGGA	2849	TCCCAAGG GGCTAGCTACAACGA GCGTCCTT	20468
7753	AAGAGUUC A CUAGGUAC	2857	GTACCTAG GGCTAGCTACAACGA GAACTCTT	20469
7774	AAGAGGCC A UCAUCGAA	2862	TTCGATGA GGCTAGCTACAACGA GGCCTCTT	20470
7777	AGGCCAUC A UCGAAGUC	2863	GACTTCGA GGCTAGCTACAACGA GATGGCCT	20471
7805	GGCAAAAC A CGCCAGGA	2867	TCCTGGCG GGCTAGCTACAACGA GTTTTGCC	20472
7828	GCAAUGUC A CUGGAGGG	2871	CCCTCCAG GGCTAGCTACAACGA GACATTGC	20473
7838	UGGAGGGC A UCCAGUCU	2873	AGACTGGA GGCTAGCTACAACGA GCCCTCCA	20474
7855	CUAGGGGC A CAGCAAAA	2878	TTTTGCTG GGCTAGCTACAACGA GCCCTAG	20475
7990	GAGGGUAC A CAAAGGGC	2895	GCCCTTTG GGCTAGCTACAACGA GTACCCCTC	20476
8009	UCCCGGAC A UGAAGAGC	2899	GCTCTTCA GGCTAGCTACAACGA GTCCGGGA	20477
8047	GAUGGAAC A UUGUCACC	2906	GGTGACAA GGCTAGCTACAACGA GTTCCATC	20478
8053	ACAUUGUC A CCAUGAAG	2907	CTTCATGG GGCTAGCTACAACGA GACAATGT	20479
8056	UUGUCACC A UGAAGAGU	2909	ACTCTTCA GGCTAGCTACAACGA GGTGACAA	20480
8104	GUUGUGAC A CCCUCCUU	2915	AAGGAGGG GGCTAGCTACAACGA GTCACAAAC	20481
8119	UUUGUGAC A UCGGAGAG	2921	CTCTCCGA GGCTAGCTACAACGA GTCACAAA	20482
8156	UGAAGAGC A UAGGACGA	2926	TCGTCTCA GGCTAGCTACAACGA GCTCTTCA	20483
8198	CUGGCUAC A CCGAGGGC	2931	GCCCTCGG GGCTAGCTACAACGA GCAGCCAG	20484
8242	GCCCCUAC A UGCCGAAA	2941	TTTCGGCA GGCTAGCTACAACGA GTAGGGGC	20485
8254	CGAAAGUC A UAGAGAAG	2943	CTTCTCTA GGCTAGCTACAACGA GACTTTCG	20486
8310	AGAAACCC A CUCUCACG	2953	CGTGAGAG GGCTAGCTACAACGA GGGTTTCT	20487
8316	CCACUCUC A CGGAUUC	2956	GAATTCCG GGCTAGCTACAACGA GAGAGTGG	20488
8326	GGAAUUC A CGCACGAG	2958	CTCGTGCG GGCTAGCTACAACGA GGAATTCC	20489
8330	UUCCACGC A CGAGAUGU	2959	ACATCTCG GGCTAGCTACAACGA GCGTGGAA	20490
8372	UGUGGUAC A UUCAGUGA	2963	TCACTGAA GGCTAGCTACAACGA GTACCACA	20491
8506	ACUCAGAC A CCAGUAAA	2989	TTTACTGG GGCTAGCTACAACGA GTCTGAGT	20492
8564	GACGUGGC A CCACGAUG	2997	CATCGTGG GGCTAGCTACAACGA GCCACGTC	20493
8567	GUGGCACC A CGAUGAGA	2999	TCTCATCG GGCTAGCTACAACGA GGTGCCAC	20494
8579	UGAGAACC A CCCAUUAU	3001	TATATGGG GGCTAGCTACAACGA GGTTCTCA	20495
8583	AACCACCC A UAUAGAAC	3004	GTTCTATA GGCTAGCTACAACGA GGGTGGTT	20496
8603	GAACUAUC A CGGCAGUU	3008	AACTGCCG GGCTAGCTACAACGA GATAGTTC	20497
8626	UGAAGCCC A CAGGCUCC	3012	GGAGCCTG GGCTAGCTACAACGA GGGCTTCA	20498
8679	UCAAAACC A UGGGACAC	3027	GTGTCCCA GGCTAGCTACAACGA GGTTTTGA	20499
8686	CAUGGGAC A CCAUCACG	3028	CGTGATGG GGCTAGCTACAACGA GTCCCATG	20500
8689	GGGACACC A UCACGAU	3030	ATTCGTGA GGCTAGCTACAACGA GGTGTCCC	20501
8692	ACACCAUC A CGAAUGUU	3031	AACATTGG GGCTAGCTACAACGA GATGGTGT	20502
8704	AUGUUACC A CCAUGGCC	3033	GGCCATGG GGCTAGCTACAACGA GGTAACAT	20503
8707	UUACCACC A UGGCCAUG	3035	CATGGCCA GGCTAGCTACAACGA GGTGGTAA	20504
8713	CCAUGGCC A UGACUGAC	3037	GTCAGTCA GGCTAGCTACAACGA GGCCATGG	20505
8722	UGACUGAC A CUACUCCC	3039	GGGAGTAG GGCTAGCTACAACGA GTCAGTCA	20506
8767	AGGUGGAC A CGAAAGCU	3048	AGCTTTTCG GGCTAGCTACAACGA GTCCACCT	20507
8818	AUGAGACC A CCAACUGG	3058	CCAGTTGG GGCTAGCTACAACGA GGTCTCAT	20508
8884	AGGAAUUC A UAAGAAAG	3069	CTTCTTTA GGCTAGCTACAACGA GAATTCCT	20509
8920	UGGGUGCC A UGUUUGAA	3076	TTCAAACA GGCTAGCTACAACGA GGCACCCA	20510
9009	CGCGAGGC A CAUCUGCG	3084	CCGAGATG GGCTAGCTACAACGA GCCTCGCG	20511
9011	CGAGGCAC A UCUGCGGG	3085	CCCGCAGA GGCTAGCTACAACGA GTGCCTCG	20512
9029	GGAAUGUC A CACUUGCA	3087	TGCAAGTG GGCTAGCTACAACGA GACATTCC	20513
9031	AAUGUCAC A CUUGCAU	3088	AATGCAAG GGCTAGCTACAACGA GTGACATT	20514
9037	ACACUUGC A UUUACAAC	3090	GTGTGAAA GGCTAGCTACAACGA GCAAGTGT	20515
9046	UUUACAAC A UGAUGGGA	3092	TCCCATCA GGCTAGCTACAACGA GTTGAAAA	20516

9106	GCAGAGCC A UUUGGUUC	3099	GAACCAAA GGCTAGCTACAACGA GGCTCTGC	20517
9115	UUUGGUUC A UGUGGCUC	3100	GAGCCACA GGCTAGCTACAACGA GAACCAAA	20518
9173	UGAAGACC A CUGGCUUG	3110	CAAGCCAG GGCTAGCTACAACGA GGTCTTCA	20519
9238	UGGGUUAC A UCCUGCGU	3121	ACGCAGGA GGCTAGCTACAACGA GTAACCCA	20520
9256	AAGUUGGC A CCCGGCCU	3124	AGGCCGGG GGCTAGCTACAACGA GCCAACTT	20521
9289	CUGAUGAC A CAGCUGGC	3132	GCCAGCTG GGCTAGCTACAACGA GTCATCAG	20522
9304	GCUGGGAC A CCCGCAUC	3136	GATGCGGG GGCTAGCTACAACGA GTCCCAGC	20523
9310	ACACCGGC A UCACGAGA	3139	TCTCGTGA GGCTAGCTACAACGA GCGGGTGT	20524
9313	CCCGCAUC A CGAGAGCU	3140	AGCTCTCG GGCTAGCTACAACGA GATGCGGG	20525
9368	UGGGGAAC A UCGGCGUC	3147	GACGCCGA GGCTAGCTACAACGA GTTCCCA	20526
9388	CCAGGGCC A UCAUUGAG	3152	CTCAATGA GGCTAGCTACAACGA GGCCCTGG	20527
9391	GGGCCAUC A UUGAGCUC	3153	GAGCTCAA GGCTAGCTACAACGA GATGGCCC	20528
9400	UUGAGCUC A CCUAUCGU	3155	ACGATAGG GGCTAGCTACAACGA GAGCTCAA	20529
9410	CUAUCGUC A CAAAGUUG	3158	CAACTTTG GGCTAGCTACAACGA GACGATAG	20530
9457	GAACCGUC A UGGAUGUU	3165	AACATCCA GGCTAGCTACAACGA GACGGTTC	20531
9505	AAGUUGUC A CCUACGCC	3171	GGCGTAGG GGCTAGCTACAACGA GACAACTT	20532
9520	CCCUAAC A CUUUCACC	3177	GGTGAAAG GGCTAGCTACAACGA GTTTAGGG	20533
9526	ACACUUUC A CCAACCTG	3179	CAGGTTGG GGCTAGCTACAACGA GAAAGTGT	20534
9601	AGAAACUC A CAAAAGGG	3192	CCCTTTTG GGCTAGCTACAACGA GAGTTTCT	20535
9667	UCAGCCGC A UGGCUGUC	3204	GACAGCCA GGCTAGCTACAACGA GCGGCTGA	20536
9721	GCUUUGCC A CCUCGCUC	3214	GAGCGAGG GGCTAGCTACAACGA GGCAAAGC	20537
9731	CUCGCUCC A CUUCCUCA	3219	TGAGGAAG GGCTAGCTACAACGA GGAGCGAG	20538
9766	GCAAAGAC A UCCAAGAG	3227	CTCTTGGA GGCTAGCTACAACGA GTCTTTGC	20539
9816	CAGGUUCC A UUUGCUC	3236	GAGCAAAA GGCTAGCTACAACGA GGAACCTG	20540
9830	CUCAAACC A UUUCACUG	3240	CAGTGAAA GGCTAGCTACAACGA GGTTTGAG	20541
9835	ACCAUUUC A CUGAAUUG	3241	CAATTCAG GGCTAGCTACAACGA GAAATGGT	20542
9847	AAUUGAUC A UGAAAGAU	3243	ATCTTTCA GGCTAGCTACAACGA GATCAATT	20543
9864	GGAAGAAC A CUGGUGGU	3244	ACACCAG GGCTAGCTACAACGA GTTCTTCC	20544
9876	GUGGUUCC A UGCCGAGG	3247	CCTCGGCA GGCTAGCTACAACGA GGAACCAC	20545
9913	GAGCUCGC A UAUCUCCA	3252	TGGAGATA GGCTAGCTACAACGA GCGAGCTC	20546
9946	UCCGCGAC A CUGCUUGU	3258	ACAAGCAG GGCTAGCTACAACGA GTCGCGGA	20547
9998	GUACUUC A CAGAAGAG	3272	CTCTTCTG GGCTAGCTACAACGA GGAAGTAC	20548
10018	UGCGGCUC A UGGCCAAC	3277	GTTGGCCA GGCTAGCTACAACGA GAGCCGCA	20549
10030	CCAACGCC A UUUGCUCC	3281	GGAGCAAA GGCTAGCTACAACGA GGCGTTGG	20550
10075	GAAGAACC A CGUGGUCC	3293	GGACCAG GGCTAGCTACAACGA GGTCTCTC	20551
10084	CGUGGUCC A UCCAUGCA	3295	TGACTAGA GGCTAGCTACAACGA GGACCAG	20552
10088	GUCCAUCC A UGCAGGAG	3297	CTCCTGCA GGCTAGCTACAACGA GGATGGAC	20553
10120	CAGAGGAC A UGUUGGAG	3301	CTCCAACA GGCTAGCTACAACGA GTCCTCTG	20554
10206	GACGUCCC A UAUUCAGG	3311	CCTGAATA GGCTAGCTACAACGA GGGACGTC	20555
10228	GAGAGGAC A UCUGGUGU	3313	ACACCAGA GGCTAGCTACAACGA GTCCTCTC	20556
10252	UGAUUGGC A CAAGAGCC	3318	GGCTCTTG GGCTAGCTACAACGA GCCAATCA	20557
10267	CCCGAGCC A CGUGGGCA	3323	TGCCACG GGCTAGCTACAACGA GGCTCGGG	20558
10282	CAGAAAAC A UCCAGGUG	3325	CACCTGGA GGCTAGCTACAACGA GTTTTCTG	20559
10315	GAGCAAUC A UCGGAGAU	3334	ATCTCCGA GGCTAGCTACAACGA GATTGCTC	20560
10342	UGGAUUAC A UGAGUUCA	3335	TGAACTCA GGCTAGCTACAACGA GTAATCCA	20561
10350	AUGAGUUC A CUAAAGAG	3336	CTCTTTAG GGCTAGCTACAACGA GAACTCAT	20562
10369	AUGAAGAC A CAACUUUG	3338	CAAAGTTG GGCTAGCTACAACGA GTCCTCAT	20563
10387	UUGAGGAC A CAGUACUG	3341	CAGTACTG GGCTAGCTACAACGA GTCCTCAA	20564
10436	AAGUAUGC A UAAAAGUG	3346	CACTTTTA GGCTAGCTACAACGA GCATACTT	20565
10528	UUCCCGCC A CCGGAAGU	3352	ACTTCCGG GGCTAGCTACAACGA GCGGGGAA	20566
10604	AGUGAUCC A UGUAAAGC	3367	GGCTTACA GGCTAGCTACAACGA GGATCACT	20567
10641	AGGACCCC A CAUGUUGU	3377	ACAACATG GGCTAGCTACAACGA GGGGTCTC	20568
10643	GACCCAC A UGUUGUAA	3378	TTACAACA GGCTAGCTACAACGA GTGGGGTC	20569
10674	GUCAGACC A CGCUACGG	3386	CCGATAGG GGCTAGCTACAACGA GGTCTGAC	20570
10759	AACGCCCC A CGCGCCCC	3405	GGCCCGCG GGCTAGCTACAACGA GGGCGGTT	20571
10838	UAAAGUGC A CGGCCAG	3418	CTGGGCGG GGCTAGCTACAACGA GCACTTTA	20572
10903	CCCGUGCC A CAAAACAC	3432	GTGTTTTG GGCTAGCTACAACGA GGCACGGG	20573
10910	CACAAAAC A CCACAACA	3434	TGTTGTGG GGCTAGCTACAACGA GTTTTGTG	20574
10913	AAAACACC A CAACAAA	3436	TTTTGTTG GGCTAGCTACAACGA GGTGTTTT	20575
10926	AAAACAGC A UAUUGACA	3440	TGTCAATA GGCTAGCTACAACGA GCTGTTTT	20576
10934	AUAUUGAC A CCUGGGAU	3441	ATCCCAGG GGCTAGCTACAACGA GTCAATAT	20577
10967	UGCUCUGC A CAACCAGC	3449	GCTGGTTG GGCTAGCTACAACGA GCAGAGCA	20578

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10977	AACCAGCC A CACGGCAC	3454	GTGCCGTG GGCTAGCTACAACGA GGCTGGTT	20579
10979	CCAGCCAC A CGGCACAG	3455	CTGTGCCG GGCTAGCTACAACGA GTGGCTGG	20580
10984	CACACGGC A CAGUGCGC	3456	GCGCACTG GGCTAGCTACAACGA GCCGTGTG	20581
11021	GCAGAAAC A CAGGAUCU	3461	AGATCCTG GGCTAGCTACAACGA GTTCTCGC	20582
9	AGUAGUUC G CCUGUGUG	3462	CACACAGG GGCTAGCTACAACGA GAACTACT	20583
13	GUUCGCCU G UGUGAGCU	3463	AGCTCACA GGCTAGCTACAACGA AGGCGAAC	20584
15	UCGCCUGU G UGAGCUGA	3464	TCAGCTCA GGCTAGCTACAACGA ACAGGCGA	20585
19	CUGUGUGA G CUGACAAA	3465	TTTGTCTG GGCTAGCTACAACGA TCACACAG	20586
32	CAAAUUUA G UAGUGUUU	3466	AAACACTA GGCTAGCTACAACGA TAAGTTTG	20587
35	ACUUAGUA G UGUUUGUG	3467	CACAAACA GGCTAGCTACAACGA TACTAAGT	20588
37	UUAGUAGU G UUUUGAG	3468	CTCACAAA GGCTAGCTACAACGA ACTACTAA	20589
41	UAGUGUUU G UGAGGAUU	3469	AATCCTCA GGCTAGCTACAACGA AAACACTA	20590
66	UUAACACA G UGCGAGCU	3470	AGTCTCGA GGCTAGCTACAACGA TGTGTAA	20591
68	AACACAGU G CGAGCUGU	3471	ACAGCTCG GGCTAGCTACAACGA ACTGTGTT	20592
72	CAGUGCGA G CUGUUUCU	3472	AGAAACAG GGCTAGCTACAACGA TCGCACTG	20593
75	UGCGAGCU G UUUUUUAG	3473	CTAAGAAA GGCTAGCTACAACGA AGCTCGCA	20594
83	GUUUUUUA G CACGAAGA	3474	TCTTCGTG GGCTAGCTACAACGA TAAGAAAC	20595
99	AUCUCGAU G UCUAAGAA	3475	TTCTTAGA GGCTAGCTACAACGA ATCGAGAT	20596
117	CCAGGAGG G CCCGGCAA	3476	TTGCCGGG GGCTAGCTACAACGA CCTCTTGG	20597
122	AGGGCCCG G CAAGAGCC	3477	GGCTCTTG GGCTAGCTACAACGA CCGGCCCT	20598
128	CGGCAAGA G CCGGGCUG	3478	CAGCCCGG GGCTAGCTACAACGA TCTTGCCG	20599
133	AGAGCCGG G CUGUCAAU	3479	ATTGACAG GGCTAGCTACAACGA CCGGTCTT	20600
136	GCCGGGCU G UCAUAUUG	3480	CATATTGA GGCTAGCTACAACGA AGCCCGGC	20601
144	GUCAUAU G CUAAAACG	3481	CGTTTTAG GGCTAGCTACAACGA ATATTGAC	20602
152	GUAAAAC G CGGAUUG	3482	GCATTCCG GGCTAGCTACAACGA GTTTTAGC	20603
159	CGCGGAU G CCCC CGU	3483	ACGCGGGG GGCTAGCTACAACGA ATTCCGCG	20604
164	AAUGCCCC G CGUGUUGU	3484	ACAACACG GGCTAGCTACAACGA GGGGCATT	20605
166	UGCCCCGC G UGUUGUCC	3485	GGACAACA GGCTAGCTACAACGA GCGGGGCA	20606
168	CCCCCGU G UUGUCCU	3486	AAGGACAA GGCTAGCTACAACGA ACGCGGGG	20607
171	CCGUGUUU G UCCUUGAU	3487	ATCAAGGA GGCTAGCTACAACGA AACACGCG	20608
193	UGAAGAGG G CUAUGUUG	3488	CAACATAG GGCTAGCTACAACGA CCTCTTCA	20609
198	AGGGCUAU G UUGAGCCU	3489	AGGCTCAA GGCTAGCTACAACGA ATAGCCCT	20610
203	UAUGUUGA G CCUGAUCG	3490	CGATCAGG GGCTAGCTACAACGA TCAACATA	20611
215	GAUCGACG G CAAGGGGC	3491	GCCCCCTG GGCTAGCTACAACGA CGTCGATC	20612
222	GGCAAGGG G CCAUACG	3492	CGTATTGG GGCTAGCTACAACGA CCCTTGCC	20613
235	UACGAUUU G UGUUGGCU	3493	AGCCAACA GGCTAGCTACAACGA AAATCGTA	20614
237	CGAUUUUG G UUGGCUCU	3494	AGAGCCAA GGCTAGCTACAACGA ACAATCG	20615
241	UUGUGUUG G CUCUCUUG	3495	CAAGAGAG GGCTAGCTACAACGA CAACACAA	20616
250	CUCUCUUG G CGUUCUUC	3496	GAAGAACG GGCTAGCTACAACGA CAAGAGAG	20617
252	CUCUUGGC G UUCUUCAG	3497	CTGAAGAA GGCTAGCTACAACGA GCCAAGAG	20618
261	UUCUUCAG G UUCACAGC	3498	GCTGTGAA GGCTAGCTACAACGA CTGAAGAA	20619
268	GGUUCACA G CAAUUGCU	3499	AGCAATTG GGCTAGCTACAACGA TGTGAACC	20620
274	CAGCAAUU G CUCCGACC	3500	GGTCGGAG GGCTAGCTACAACGA AATTGCTG	20621
286	CGACCCGA G CAGUGCUG	3501	CAGCACTG GGCTAGCTACAACGA TCGGTCG	20622
289	CCCGAGCA G UGCUGGAU	3502	ATCCAGCA GGCTAGCTACAACGA TGCTCGGG	20623
291	CGAGCAGU G CUGGAUCG	3503	CGATCCAG GGCTAGCTACAACGA ACTGCTCG	20624
308	AUGGAGAG G UGUGAACA	3504	TGTTTACA GGCTAGCTACAACGA CTCTCCAT	20625
310	GGAGAGGU G UGAACAAA	3505	TTTGTTCA GGCTAGCTACAACGA ACCTCTCC	20626
325	AACAAACA G CGAUGAAA	3506	TTTCATCG GGCTAGCTACAACGA TGTTTGTT	20627
344	CCUUCUGA G UUUUAAGA	3507	TCTTAAAA GGCTAGCTACAACGA TCAGAAGG	20628
374	CUUGACCA G UGCUAUCA	3508	TGATAGCA GGCTAGCTACAACGA TGGTCAAG	20629
376	UGACCAGU G CUAUCAAU	3509	ATTGATAG GGCTAGCTACAACGA ACTGTGTA	20630
387	AUCAUUCG G CGGAGCUC	3510	GAGCTCCG GGCTAGCTACAACGA CGATTGAT	20631
392	UCGGCGGA G CUCAAAAC	3511	GTTTTGAG GGCTAGCTACAACGA TCCGCCGA	20632
430	CCGGAUUU G CAGUCAUG	3512	CATGACTG GGCTAGCTACAACGA AATTCCGG	20633
433	GAAUUGCA G UCAUGAUU	3513	AATCATGA GGCTAGCTACAACGA TGCAATTC	20634
443	CAUGAUUG G CCUGAUCG	3514	CGATCAGG GGCTAGCTACAACGA CAATCATG	20635
451	GCCUGAUC G CCAGCGUA	3515	TACGCTGG GGCTAGCTACAACGA GATCAGGC	20636
455	GAUCGCCA G CGUAGGAG	3516	CTCCTACG GGCTAGCTACAACGA TGGCGATC	20637
457	UCGCCAGC G UAGGAGCA	3517	TGCTCCTA GGCTAGCTACAACGA GCTGGCGA	20638
463	GCGUAGGA G CAGUUAAC	3518	GGTAACCT GGCTAGCTACAACGA TCCTACGC	20639
466	UAGGAGCA G UUAACCCUC	3519	GAGGGTAA GGCTAGCTACAACGA TGCTCCTA	20640

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493	AAGGGAAG G UGAUGAUG	3520	CATCATCA GGCTAGCTACAACGA CTTCCCTT	20641
505	UGAUGACG G UAAAUAGCU	3521	AGCATTTA GGCTAGCTACAACGA CGTCATCA	20642
511	CGGUAAAU G CUACUGAC	3522	GTCAGTAG GGCTAGCTACAACGA ATTTACCG	20643
520	CUACUGAC G UCACAGAU	3523	ATCTGTGA GGCTAGCTACAACGA GTCAGTAG	20644
529	UCACAGAU G UCAUCACG	3524	CGTGATGA GGCTAGCTACAACGA ATCTGTGA	20645
547	UUCCAACA G CUGCUGGA	3525	TCCAGCAG GGCTAGCTACAACGA TGTGGAA	20646
550	CAACAGCU G CUGGAAAG	3526	CTTCCAG GGCTAGCTACAACGA AGCTGTG	20647
566	GAACCUAU G CAUUGUCA	3527	TGACAATG GGCTAGCTACAACGA ATAGGTTC	20648
571	UAUGCAU G UCAGAGCA	3528	TGCTCTGA GGCTAGCTACAACGA AATGCATA	20649
577	UUGUCAGA G CAAUGGAU	3529	ATCCATTG GGCTAGCTACAACGA TCTGACAA	20650
586	CAAUGGAU G UGGGAUAC	3530	GTATCCCA GGCTAGCTACAACGA ATCCATTG	20651
597	GGAUACAU G UGCGAUGA	3531	TCATCGCA GGCTAGCTACAACGA ATGTATCC	20652
599	AUACAUGU G CGAUGAUA	3532	TATCATCG GGCTAGCTACAACGA ACATGTAT	20653
623	UUAUGAAU G CCCAGUGC	3533	GCACTGGG GGCTAGCTACAACGA ATTCATAA	20654
628	AAUGCCCA G UGCUGUCG	3534	CGACAGCA GGCTAGCTACAACGA TGGGCATT	20655
630	UGCCCAGU G CUGUCGGC	3535	GCCGACAG GGCTAGCTACAACGA ACTGGGCA	20656
633	CCAGUGCU G UCGGUCUG	3536	CCAGCCGA GGCTAGCTACAACGA AGCACTGG	20657
637	UGCUGUCG G CUGGUAU	3537	ATTACCAG GGCTAGCTACAACGA CGACAGCA	20658
641	GUCGGCUG G UAAUGAUC	3538	GATCATTG GGCTAGCTACAACGA CAGCCGAC	20659
665	CAUCGACU G UUGGUGCA	3539	TGCACCA GGCTAGCTACAACGA AGTCGATG	20660
669	GACUGUUG G UGCACAAA	3540	TTTGTGCA GGCTAGCTACAACGA CAACAGTC	20661
671	CUGUUGGU G CACAAAGU	3541	ACTTTGTG GGCTAGCTACAACGA ACCAACAG	20662
678	UGCACAAA G UCAGCAGU	3542	ACTGCTGA GGCTAGCTACAACGA TTTGTGCA	20663
682	CAAAGUCA G CAGUCUAC	3543	GTAGACTG GGCTAGCTACAACGA TGACTTTG	20664
685	AGUCAGCA G UCUCAGUC	3544	GACGTAGA GGCTAGCTACAACGA TGCTGACT	20665
691	CAGUCUAC G UCAGGUU	3545	ATACCTGA GGCTAGCTACAACGA GTAGACTG	20666
696	UACGUCAG G UAUGGAAG	3546	CTTCCATA GGCTAGCTACAACGA CTGACGTA	20667
707	UGGAAGAU G CACCAAGA	3547	TCTTGGTG GGCTAGCTACAACGA ATCTTCCA	20668
719	CAAGACAC G CCACUCAA	3548	TTGAGTGG GGCTAGCTACAACGA GTGTCTTG	20669
731	CUCAAGAC G CAGUCGGA	3549	TCCGACTG GGCTAGCTACAACGA GTCTTGAG	20670
734	AAGACGCA G UCGGAGGU	3550	ACCTCCGA GGCTAGCTACAACGA TGCCTCTT	20671
741	AGUCGGAG G UCACUGAC	3551	GTCAGTGA GGCTAGCTACAACGA CTCCGACT	20672
751	CACUGACA G UGCAGACA	3552	TGTCTGCA GGCTAGCTACAACGA TGTCACTG	20673
753	CUGACAGU G CAGACACA	3553	TGTGTCTG GGCTAGCTACAACGA ACTGTCAG	20674
770	CGGAGAAA G CACUCUAG	3554	CTAGAGTG GGCTAGCTACAACGA TTTCTCCG	20675
778	GCACUCUA G CGAACAAG	3555	CTTGTTTC GGCTAGCTACAACGA TAGAGTGC	20676
793	AGAAGGGG G CUUGGAUG	3556	CATCCAAG GGCTAGCTACAACGA CCCCTTCT	20677
806	GAUGGACA G CACCAAGG	3557	CCTTGGTG GGCTAGCTACAACGA TGTCCATC	20678
814	GCACCAAG G CCACAAGG	3558	CCTTGTGG GGCTAGCTACAACGA CTTGGTGC	20679
822	GCCACAAG G UAUUUGGU	3559	ACCAAATA GGCTAGCTACAACGA CTTGTGGC	20680
829	GGUAUUUG G UAAAAACA	3560	TGTTTTTA GGCTAGCTACAACGA CAAATACC	20681
868	CUGGAUUA G CCCUGGUG	3561	CACCAGGG GGCTAGCTACAACGA ATATCCAG	20682
874	AUGCCCU G UGCAGCC	3562	GGCTGCCA GGCTAGCTACAACGA CAGGGCAT	20683
877	CCCUGGUG G CAGCCGUC	3563	GACGGCTG GGCTAGCTACAACGA CACCAGGG	20684
880	UGGUGGCA G CCGUCAU	3564	AATGACGG GGCTAGCTACAACGA TGCCACCA	20685
883	UGGCAGCC G UCAUUGGU	3565	ACCAATGA GGCTAGCTACAACGA GGCTGCCA	20686
890	CGUCAUUG G UUGGAUGC	3566	GCATCCAA GGCTAGCTACAACGA CAATGACG	20687
897	GGUUGGAU G CUUGGGAG	3567	CTCCCAAG GGCTAGCTACAACGA ATCCAACC	20688
905	GCUUGGGA G CAACACCA	3568	TGGTGTG GGCTAGCTACAACGA TCCCAAGC	20689
915	AACACCAU G CAGAGAGU	3569	ACTCTCTG GGCTAGCTACAACGA ATGGTGT	20690
922	UGCAGAGA G UUGUGUUU	3570	AAACACAA GGCTAGCTACAACGA TCTCTGCA	20691
925	AGAGAGUU G UGUUUGUC	3571	GACAAACA GGCTAGCTACAACGA AACTCTCT	20692
927	AGAGUUGU G UUUUGUCU	3572	ACGACAAA GGCTAGCTACAACGA ACAACTCT	20693
931	UUGUGUUU G UCGUGCUA	3573	TAGCAGCA GGCTAGCTACAACGA AAACACAA	20694
934	UGUUUGUG G UGCUAUUG	3574	CAATAGCA GGCTAGCTACAACGA GACAAACA	20695
936	UUUUGUCU G CUAUUGCU	3575	AGCAATAG GGCTAGCTACAACGA AAGACAAA	20696
942	GUGCUAUU G CUUUUGGU	3576	ACCAAAAG GGCTAGCTACAACGA AATAGCAC	20697
949	UGCUUUUG G UGGCCCCA	3577	TGGGGCCA GGCTAGCTACAACGA CAAAAGCA	20698
952	UUUUGGUG G CCCAGCU	3578	AGCTGGGG GGCTAGCTACAACGA CACCAAAA	20699
958	UGGCCCCA G CUUACAGC	3579	GCTGTAAG GGCTAGCTACAACGA TGGGGCCA	20700
965	AGCUUACA G CUUCAACU	3580	AGTTGAAG GGCTAGCTACAACGA TGTAAGCT	20701
974	CUUCAACU G CUUGGAA	3581	TTCCAAGG GGCTAGCTACAACGA AGTTGAAG	20702

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986	UGGAAUGA G CAACAGAG	3582	CTCTGTTG GGCTAGCTACAACGA TCATTCCA	20703
1009	UGGAAGGA G UGUCUGGA	3583	TCCAGACA GGCTAGCTACAACGA TCCTTCCA	20704
1011	GAAGGAGU G UCUGGAGC	3584	GCTCCAGA GGCTAGCTACAACGA ACTCCTTC	20705
1018	UGUCUGGA G CAACAUGG	3585	CCATGTTG GGCTAGCTACAACGA TCCAGACA	20706
1027	CAACAUGG G UGGAUUUG	3586	CAAATCCA GGCTAGCTACAACGA CCATGTTG	20707
1036	UGGAUUUG G UUCUCGAA	3587	TTCGAGAA GGCTAGCTACAACGA CAAATCCA	20708
1046	UCUCGAAG G CGACAGCU	3588	AGCTGTCG GGCTAGCTACAACGA CTTGAGAA	20709
1052	AGGCGACA G CUGCGUGA	3589	TCACGCAG GGCTAGCTACAACGA TGTGCTCT	20710
1055	CGACAGCU G CGUGACUA	3590	TAGTCACG GGCTAGCTACAACGA AGTGTGTC	20711
1057	ACAGCUGC G UGACUAUC	3591	GATAGTCA GGCTAGCTACAACGA GCAGCTGT	20712
1068	ACUAUCAU G UCUAAGGA	3592	TCCTTAGA GGCTAGCTACAACGA ATGATAGT	20713
1080	AAGGACAA G CCUACCAU	3593	ATGGTAGG GGCTAGCTACAACGA TTGTCCTT	20714
1093	CCAUCGAU G UGAAGAUG	3594	CATCTTCA GGCTAGCTACAACGA ATCGATGG	20715
1114	AUAUGGAG G CGGUCAAC	3595	GTTGACCG GGCTAGCTACAACGA CTCATAT	20716
1117	UGGAGGCG G UCAACCUG	3596	CAGGTTGA GGCTAGCTACAACGA CGCTCCA	20717
1126	UCAACCUG G CAGAGGUC	3597	GACCTCTG GGCTAGCTACAACGA CAGGTTGA	20718
1132	UGGCAGAG G UCCGCAGU	3598	ACTGCCGA GGCTAGCTACAACGA CTCTGCCA	20719
1136	AGAGGUCC G CAGUUAUU	3599	AATAACTG GGCTAGCTACAACGA GGACCTCT	20720
1139	GGUCCGCA G UUAUUGCU	3600	AGCAATAA GGCTAGCTACAACGA TGGGACC	20721
1145	CAGUUAUU G CUUUUGG	3601	CCAAATAG GGCTAGCTACAACGA AATAACTG	20722
1153	GCUAUUUG G CUACCGUC	3602	GACGGTAG GGCTAGCTACAACGA CAAATAGC	20723
1159	UGGCUACC G UCAGCGAU	3603	ATCGCTGA GGCTAGCTACAACGA GGTAGCCA	20724
1163	UACCGUCA G CGAUCUCU	3604	AGAGATCG GGCTAGCTACAACGA TGACGGTA	20725
1180	CCACCAAA G CUGCGUGC	3605	GCACGCAG GGCTAGCTACAACGA TTTGGTGG	20726
1183	CCAAAGCU G CGUGCCCG	3606	CGGGCACG GGCTAGCTACAACGA AGCTTTGG	20727
1185	AAAGCUGC G UGCCCGAC	3607	GTCGGGCA GGCTAGCTACAACGA GCAGCTTT	20728
1187	AGCUGCGU G CCCGACCA	3608	TGGTCGGG GGCTAGCTACAACGA ACGCAGCT	20729
1204	UGGGAGAA G CUCACAAU	3609	ATTGTGAG GGCTAGCTACAACGA TTCTCCCA	20730
1220	UGACAAAC G UGCUGACC	3610	GGTCAGCA GGCTAGCTACAACGA GTTTGTCA	20731
1222	ACAAACGU G CUGACCCA	3611	TGGGTCAG GGCTAGCTACAACGA ACGTTTGT	20732
1231	CUGACCCA G CUUUUGUG	3612	CACAAAGG GGCTAGCTACAACGA TGGGTGAG	20733
1237	CAGCUUUU G UGUGCAGA	3613	TCTGCACA GGCTAGCTACAACGA AAAAGCTG	20734
1239	GCUUUUGU G UGCAGACA	3614	TGTCTGCA GGCTAGCTACAACGA ACAAAGC	20735
1241	UUUUUGUGU G CAGACAAG	3615	CTTGTCTG GGCTAGCTACAACGA ACACAAAA	20736
1252	GACAAGGA G UGGUGGAC	3616	GTCCACCA GGCTAGCTACAACGA TCCTTGTC	20737
1255	AAGGAGUG G UGGACAGG	3617	CCTGTCCA GGCTAGCTACAACGA CACTCCTT	20738
1265	GGACAGGG G CUGGGGCA	3618	TGCCCCAG GGCTAGCTACAACGA CCTGTGCC	20739
1271	GGGCUGGG G CAACGGCU	3619	AGCCGTTG GGCTAGCTACAACGA CCCAGCCC	20740
1277	GGGCAACG G CUGCGGAU	3620	ATCCGCAG GGCTAGCTACAACGA CGTTGCC	20741
1280	CAACGGCU G CGGAUUUU	3621	ATAATCCG GGCTAGCTACAACGA AGCCGTTG	20742
1292	AUUUUUUG G CAAAGGAA	3622	TTCTTTTG GGCTAGCTACAACGA CAAATAAT	20743
1301	CAAAGGAA G CAUUGACA	3623	TGTCAATG GGCTAGCTACAACGA TTCTTTTG	20744
1313	UGACACAU G CGCCAAAU	3624	ATTTGGCG GGCTAGCTACAACGA ATGTGTCA	20745
1315	ACACAUGC G CCAAUUUU	3625	AAATTTGG GGCTAGCTACAACGA GCATGTGT	20746
1324	CCAAUUUU G CCUGCUCU	3626	AGAGCAGG GGCTAGCTACAACGA AAATTTGG	20747
1328	AUUUGCCU G CUCUACCA	3627	TGGTAGAG GGCTAGCTACAACGA AGGCAAAT	20748
1339	CUACCAAG G CAAUAGGA	3628	TCCTATTG GGCTAGCTACAACGA CTGGTAG	20749
1374	AAUAUCAA G UACGAAGU	3629	ACTTCGTA GGCTAGCTACAACGA TTGATATT	20750
1381	AGUACGAA G UGGCCAUU	3630	AATGCGCA GGCTAGCTACAACGA TTCGTACT	20751
1384	ACGAAGUG G CCAUUUUU	3631	AAAAATGG GGCTAGCTACAACGA CACTTCGT	20752
1393	CCAUUUUU G UCCAUGGA	3632	TCCATGGA GGCTAGCTACAACGA AAAAATGG	20753
1411	CAACUACU G UGGAGUCG	3633	CGACTCCA GGCTAGCTACAACGA AGTAGTTG	20754
1416	ACUGUGGA G UCGCACGG	3634	CCGTGCGA GGCTAGCTACAACGA TCCACAGT	20755
1419	GUGGAGUC G CACGGAAA	3635	TTTCCGTG GGCTAGCTACAACGA GACTCCAC	20756
1441	CCACACAG G UUGGAGCC	3636	GGCTCCAA GGCTAGCTACAACGA CTGTGTGG	20757
1447	AGGUUGGA G CCACUCAG	3637	CTGAGTGG GGCTAGCTACAACGA TCCAACCT	20758
1456	CCACUCAG G CAGGAGAA	3638	TCTCCCTG GGCTAGCTACAACGA CTGATGG	20759
1469	GAGAUUCA G CAUCACUC	3639	GAGTAGTG GGCTAGCTACAACGA TGAATCTC	20760
1480	UCACUCCU G CGGCGCCU	3640	AGGCGCCG GGCTAGCTACAACGA AGGAGTGA	20761
1483	CUCCUGCG G CGCCUUCA	3641	TGAAGGCG GGCTAGCTACAACGA CGCAGGAG	20762
1485	CCUGCGGC G CCUUCUAU	3642	TATGAAGG GGCTAGCTACAACGA GCCGAGG	20763
1503	ACACUAAA G CUUGGAGA	3643	TCTCCAAG GGCTAGCTACAACGA TTAGTGT	20764

1522	AUGGAGAG G UGACAGUG	3644	CACTGTCA GGCTAGCTACAACGA CTCTCCAT	20765
1528	AGGUGACA G UGGACUGU	3645	ACAGTCCA GGCTAGCTACAACGA TGTACCT	20766
1535	AGUGGACU G UGAACCAC	3646	GTGGTTCA GGCTAGCTACAACGA AGTCCACT	20767
1545	GAACCACG G UCAGGGAU	3647	ATCCCTGA GGCTAGCTACAACGA CGTGGTTC	20768
1564	ACACCAAU G CAUACUAC	3648	GTAGTATG GGCTAGCTACAACGA ATTGGTGT	20769
1573	CAUACUAC G UGAUGACU	3649	AGTCATCA GGCTAGCTACAACGA GTAGTATG	20770
1582	UGAUGACU G UUGGAACA	3650	TGTTCCAA GGCTAGCTACAACGA AGTCATCA	20771
1596	ACAAAGAC G UUCUUGGU	3651	ACCAAGAA GGCTAGCTACAACGA GTCTTTGT	20772
1603	CGUUCUUG G UCCAUCGU	3652	ACGATGGA GGCTAGCTACAACGA CAAGAACG	20773
1610	GGUCCAUC G UGAGUGGU	3653	ACCACTCA GGCTAGCTACAACGA GATGGACC	20774
1614	CAUCUGUA G UGUUCAU	3654	ATGAACCA GGCTAGCTACAACGA TCACGATG	20775
1617	CGUGAGUG G UUCAUGGA	3655	TCCATGAA GGCTAGCTACAACGA CACTCACG	20776
1643	CCCUGGA G CAGUCUG	3656	CAGCACTG GGCTAGCTACAACGA TCCAAGGG	20777
1646	UUGGAGCA G UGCUGAA	3657	TTCCAGCA GGCTAGCTACAACGA TGCTCCAA	20778
1648	GGAGCAGU G CUGGAAGU	3658	ACTTCCAG GGCTAGCTACAACGA ACTGCTCC	20779
1655	UGCUGGAA G UACUGUGU	3659	ACACAGTA GGCTAGCTACAACGA TTCCAGCA	20780
1660	GAAGUACU G UGUGGAGG	3660	CCTCCACA GGCTAGCTACAACGA AGTACTTC	20781
1662	AGUACUGU G UGGAGGAA	3661	TTCTTCCA GGCTAGCTACAACGA ACAGTACT	20782
1680	AGAGAGAC G UUAUUGGA	3662	TCCATTAA GGCTAGCTACAACGA GTCTCTCT	20783
1689	UUAUUGGA G UUUGAGGA	3663	TCCTCAAA GGCTAGCTACAACGA TCCATTAA	20784
1705	AACCACAC G CCACGAAG	3664	CTTCGTGG GGCTAGCTACAACGA GTGTGGTT	20785
1713	GCCACGAA G CAGUCUGU	3665	ACAGACTG GGCTAGCTACAACGA TTCGTGGC	20786
1716	ACGAAGCA G UCUGUGAU	3666	ATCACAGA GGCTAGCTACAACGA TGCTTCGT	20787
1720	AGCAGUCU G UGAUAGCA	3667	TGCTATCA GGCTAGCTACAACGA AGACTGCT	20788
1726	CUGUGAUA G CAUUGGGC	3668	GCCCAATG GGCTAGCTACAACGA TATCACAG	20789
1733	AGCAUUGG G CUCACAAG	3669	CTTGTGAG GGCTAGCTACAACGA CCAATGCT	20790
1747	AAGAGGGA G CUCUGCAU	3670	ATGCAGAG GGCTAGCTACAACGA TCCCTCTT	20791
1752	GGAGCUCU G CAUCAAGC	3671	CGTTGATG GGCTAGCTACAACGA AGAGCTCC	20792
1759	UGCAUCAA G CUUUGGCU	3672	AGCCAAAG GGCTAGCTACAACGA TTGATGCA	20793
1765	AAGCUUUG G CUGGAGCC	3673	GGCTCCAG GGCTAGCTACAACGA CAAAGCTT	20794
1771	UGGCUGGA G CCAUUCU	3674	AGGAATGG GGCTAGCTACAACGA TCCAGCCA	20795
1780	CCAUUCU G UGGAAUUU	3675	AAATTCCA GGCTAGCTACAACGA AGGAATGG	20796
1793	AUUUCAA G CAACACUG	3676	CAGTGTGG GGCTAGCTACAACGA TTGAAAAT	20797
1801	GCAACACU G UCAAGUUG	3677	CAACTTGA GGCTAGCTACAACGA AGTGTTCG	20798
1806	ACUGUCA G UUGACGUC	3678	GACGTCAA GGCTAGCTACAACGA TTGACAGT	20799
1812	AAGUUGAC G UCGGGUCA	3679	TGACCCGA GGCTAGCTACAACGA GTCAACTT	20800
1817	GACGUCGG G UCAUUUGA	3680	TCAAATGA GGCTAGCTACAACGA CCGACGTC	20801
1827	CAUUUGAA G UGUAGAGU	3681	ACTCTACA GGCTAGCTACAACGA TTCAAATG	20802
1829	UUUGAAGU G UAGAGUGA	3682	TCACTCTA GGCTAGCTACAACGA ACTTCAAA	20803
1834	AGUGUAGA G UGAAGAUG	3683	CATCTTCA GGCTAGCTACAACGA TCTACACT	20804
1851	GAAAAAUU G CAGUUGAA	3684	TTCAACTG GGCTAGCTACAACGA AATTTTTC	20805
1854	AAAUUGCA G UUGAAGGG	3685	CCCTTCAA GGCTAGCTACAACGA TGCAATTT	20806
1874	AACCUAUG G CGUCUGUU	3686	AACAGACG GGCTAGCTACAACGA CATAGGTT	20807
1876	CCUAUGGC G UCUGUUA	3687	TGAACAGA GGCTAGCTACAACGA GCCATAGG	20808
1880	UGGCGUCU G UUCAAGG	3688	CCTTTGAA GGCTAGCTACAACGA AGACGCCA	20809
1888	GUUCAAG G CUUCAAG	3689	CTTGAAAG GGCTAGCTACAACGA CTTTGAAC	20810
1896	GCUUCAA G UUUCUUGG	3690	CCAAGAAA GGCTAGCTACAACGA TTGAAAGC	20811
1912	GGACUCCC G CAGACACA	3691	TGTGTCTG GGCTAGCTACAACGA GGGAGTCC	20812
1922	AGACACAG G UCACGGCA	3692	TGCCGTGA GGCTAGCTACAACGA CTGTGTCT	20813
1928	AGGUCACG G CACUGUGG	3693	CCACAGTG GGCTAGCTACAACGA CGTGACCT	20814
1933	ACGGCACU G UGGUGUUG	3694	CAACACCA GGCTAGCTACAACGA AGTGCCGT	20815
1936	GCACUGUG G UGUUGGAA	3695	TTCCAACA GGCTAGCTACAACGA CACAGTGC	20816
1938	ACUGUGGU G UUGGAAUU	3696	AATTTCAA GGCTAGCTACAACGA ACCACGT	20817
1947	UUGGAAUU G CAGUACAC	3697	GTGTACTG GGCTAGCTACAACGA AATTCCAA	20818
1950	GAAUUGCA G UACACUGG	3698	CCAGTGTA GGCTAGCTACAACGA TGCAATTC	20819
1958	GUACACUG G CACGGAUG	3699	CATCCGTG GGCTAGCTACAACGA CAGTGTAC	20820
1973	UGGACCUU G CAAAGUUC	3700	GAACTTTG GGCTAGCTACAACGA AAGGTCCA	20821
1978	CUUGCAAA G UCCUAUC	3701	GATAGGAA GGCTAGCTACAACGA TTTGCAAG	20822
1989	CCUAUCUC G UCAGUGGC	3702	GCCACTGA GGCTAGCTACAACGA GAGATAGG	20823
1993	UCUCGUCA G UGGCUUCA	3703	TGAAGCCA GGCTAGCTACAACGA TGACGAGA	20824
1996	CGUCAGUG G CUUCAUUG	3704	CAATGAAG GGCTAGCTACAACGA CACTGACG	20825
2016	GACCUAAC G CCAGUGGG	3705	CCCCTGG GGCTAGCTACAACGA GTTAGGTC	20826

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2020	UAACGCCA G UGGGCAGA	3706	TCTGCCCC GGCTAGCTACAACGA TGGCGTTA	20827
2024	GCCAGUUG G CAGAUUGG	3707	CCAATCTG GGCTAGCTACAACGA CCACTGGC	20828
2032	GCAGAUUG G UCACUGUC	3708	GACAGTGA GGCTAGCTACAACGA CAATCTGC	20829
2038	UGGUCACU G UCAACCCU	3709	AGGGTTGA GGCTAGCTACAACGA AGTGACCA	20830
2050	ACCCUUUU G UUUCAGUG	3710	CACTGAAA GGCTAGCTACAACGA AAAAGGGT	20831
2056	UUGUUUCA G UGGCCACG	3711	CGTGGCCA GGCTAGCTACAACGA TGAAACAA	20832
2059	UUUCAGUG G CCACGGCC	3712	GGCCGTGG GGCTAGCTACAACGA CACTGAAA	20833
2065	UGGCCACG G CCAACGCU	3713	AGCGTTGG GGCTAGCTACAACGA CGTGGCCA	20834
2071	CGGCCAAC G CUAAGGUC	3714	GACCTTAG GGCTAGCTACAACGA GTTGGCCG	20835
2077	ACGCUAAG G UCCUGAAU	3715	AATCAGGA GGCTAGCTACAACGA CTTAGCGT	20836
2119	CAUACAUA G UGGUGGGC	3716	GCCCCA CA GGCTAGCTACAACGA TATGTATG	20837
2122	ACAUAGUG G UGGGCAGA	3717	TCTGCCCA GGCTAGCTACAACGA CACTATGT	20838
2126	AGUGGUGG G CAGAGGAG	3718	CTCCTCTG GGCTAGCTACAACGA CCACCACT	20839
2157	CACCAUUG G CACAAGUC	3719	GACTTGTG GGCTAGCTACAACGA CAATGGTG	20840
2163	UGGCACAA G UCUGGAAG	3720	CTTCCAGA GGCTAGCTACAACGA TTGTGCCA	20841
2171	GUCUGGAA G CAGCAUUG	3721	CAATGCTG GGCTAGCTACAACGA TTCCAGAC	20842
2174	UGGAAGCA G CAUUGGCA	3722	TGCCAATG GGCTAGCTACAACGA TGCTTCCA	20843
2180	CAGCAUUG G CAAAGCCU	3723	AGGCTTTG GGCTAGCTACAACGA CAATGCTG	20844
2185	UUGGCAAA G CCUUUACA	3724	TGTAAGG GGCTAGCTACAACGA TTGCGCAA	20845
2209	UCAAGGA G CGCAGAGA	3725	TCTCTGCG GGCTAGCTACAACGA TCCTTTGA	20846
2211	AAAGGAGC G CAGAGACU	3726	AGTCTCTG GGCTAGCTACAACGA GCTCCTTT	20847
2221	AGAGACUA G CCGCUCUA	3727	TAGAGCGG GGCTAGCTACAACGA TAGTCTCT	20848
2224	GACUAGCC G CUCUAGGA	3728	TCCTAGAG GGCTAGCTACAACGA GGCTAGTC	20849
2239	GAGACACA G CUUGGGAC	3729	GTCCCAAG GGCTAGCTACAACGA TGTGTCTC	20850
2257	UUGGAUCA G UUGGAGGG	3730	CCCTCCAA GGCTAGCTACAACGA TGATCCAA	20851
2266	UUGGAGGG G UGUUCACC	3731	GGTGAACA GGCTAGCTACAACGA CCTCCAA	20852
2268	GGAGGGGU G UUCACCUC	3732	GAGGTGAA GGCTAGCTACAACGA ACCCCTCC	20853
2278	UCACCUCA G UUGGGAAG	3733	CTTCCCAA GGCTAGCTACAACGA TGAGGTGA	20854
2287	UUGGGAAG G CUGUCCAU	3734	ATGGACAG GGCTAGCTACAACGA CTTCCCAA	20855
2290	GGAAAGGU G UCCAUCAA	3735	TTGATGGA GGCTAGCTACAACGA AGCCTTCC	20856
2299	UCCAUCAA G UGUUCGGA	3736	TCCGAACA GGCTAGCTACAACGA TTGATGGA	20857
2301	CAUCAAGU G UUCGGAGG	3737	CCTCCGAA GGCTAGCTACAACGA ACTTGATG	20858
2311	UCGGAGGA G CAUUCGCG	3738	GCGGAATG GGCTAGCTACAACGA TCCTCCGA	20859
2318	AGCAUUCG G CUCACUGU	3739	ACAGTGAG GGCTAGCTACAACGA GGAATGCT	20860
2325	CGCUCACU G UUCGGAGG	3740	CCTCCGAA GGCTAGCTACAACGA AGTGAGCG	20861
2333	GUUCGGAG G CAUGUCCU	3741	AGGACATG GGCTAGCTACAACGA CTCCGAAC	20862
2337	GGAGGCAU G UCCUGGAU	3742	ATCCAGGA GGCTAGCTACAACGA ATGCCTCC	20863
2349	UGGAUAAC G CAAGGAU	3743	AATCCTTG GGCTAGCTACAACGA GTTATCCA	20864
2358	CAAGGAUU G CUGGGGGC	3744	GCCCCAG GGCTAGCTACAACGA AATCCTTG	20865
2365	UGCUGGGG G CUCUCCUG	3745	CAGGAGAG GGCTAGCTACAACGA CCCCAGCA	20866
2373	GCUCUCCU G UUGUGGAU	3746	ATCCACAA GGCTAGCTACAACGA AGGAGAGC	20867
2376	CUCCUGUU G UGGAUGGG	3747	CCCATCCA GGCTAGCTACAACGA AACAGGAG	20868
2384	GUGGAUUG G CAUCAUUG	3748	CATTGATG GGCTAGCTACAACGA CCATCCAC	20869
2392	GCAUCAAU G CUCUGAU	3749	ATCACGAG GGCTAGCTACAACGA ATTGATGC	20870
2396	CAAUGCUC G UGAUAGGU	3750	ACCTATCA GGCTAGCTACAACGA GAGCATTG	20871
2403	CGUGAUAG G UCCAUAGC	3751	GCTATGGA GGCTAGCTACAACGA CTATCACG	20872
2410	GGUCCAUA G CUCUCACG	3752	CGTGAGAG GGCTAGCTACAACGA TATGGACC	20873
2418	GCUCUCAC G UUUCUCGC	3753	GCGAGAAA GGCTAGCTACAACGA GTGAGAGC	20874
2425	CGUUUCUC G CAGUUGGA	3754	TCCAAGTG GGCTAGCTACAACGA GAGAAACG	20875
2428	UUCUCGCA G UUGGAGGA	3755	TCCTCCAA GGCTAGCTACAACGA TGCGAGAA	20876
2437	UUGGAGGA G UUCUGCUC	3756	GAGCAGAA GGCTAGCTACAACGA TCCTCCAA	20877
2442	GGAGUUCU G CUCUCCU	3757	AGGAAGAG GGCTAGCTACAACGA AGAAGTCC	20878
2455	UCCUCUCC G UGAACGUG	3758	CACGTTCA GGCTAGCTACAACGA GGAGAGGA	20879
2461	CCGUGAAC G UGCACGCU	3759	AGCGTGCA GGCTAGCTACAACGA GTTCACGG	20880
2463	GUGAACGU G CACGCUGA	3760	TCAGCGTG GGCTAGCTACAACGA ACGTTTAC	20881
2467	ACGUGCAC G CUGACACU	3761	AGTGTGAG GGCTAGCTACAACGA GTGACGCT	20882
2478	GACACUGG G UUGCCAU	3762	ATGCCACA GGCTAGCTACAACGA CCAGTGTC	20883
2480	CACUGGGU G UGCCAUAG	3763	CTATGGCA GGCTAGCTACAACGA ACCCAGTG	20884
2482	CUGGGUGU G CCAUAGAC	3764	GTCTATGG GGCTAGCTACAACGA ACACCCAG	20885
2495	AGACAUCA G CCGGCAAG	3765	CTTGCCGG GGCTAGCTACAACGA TGATGTCT	20886
2499	AUCAGCCG G CAAGAGCU	3766	AGCTCTTG GGCTAGCTACAACGA CGGCTGAT	20887
2505	CGGCAAGA G CUGAGAUG	3767	CATCTCAG GGCTAGCTACAACGA TCTTGCCG	20888

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2513	GCUGAGAU G UGGAAGUG	3768	CACTTCCA GGCTAGCTACAACGA ATCTCAGC	20889
2519	AUGUGGAA G UGGAGUGU	3769	ACACTCCA GGCTAGCTACAACGA TTCCACAT	20890
2524	GAAGUGGA G UGUUCAUA	3770	TATGAACA GGCTAGCTACAACGA TCCACTTC	20891
2526	AGUGGAGU G UUCAUACA	3771	TGTATGAA GGCTAGCTACAACGA ACTCCACT	20892
2542	ACAAUGAU G UGGAGGCU	3772	AGCCTCCA GGCTAGCTACAACGA ATCATTGT	20893
2548	AUGUGGAG G CUUGGAUG	3773	CATCCAAG GGCTAGCTACAACGA CTCCACAT	20894
2562	AUGGACCG G UACAAGUA	3774	TACTTGTA GGCTAGCTACAACGA CGGTCCAT	20895
2568	CGGUACAA G UAUUACCC	3775	GGGTAATA GGCTAGCTACAACGA TTGTACCG	20896
2583	CCUGAAAC G CCACAAGG	3776	CCTTGTGG GGCTAGCTACAACGA GTTTCAGG	20897
2591	GCCACAAG G CCUAGCCA	3777	TGGCTAGG GGCTAGCTACAACGA CTGTGGC	20898
2596	AAGGCCUA G CCAAGAUC	3778	GATCTTGG GGCTAGCTACAACGA TAGGCCCT	20899
2614	UUCAGAAA G CUCAUAAG	3779	CTTATGAG GGCTAGCTACAACGA TTTCTGAA	20900
2629	AGGAAGGA G UGUGCGGU	3780	ACCGCACA GGCTAGCTACAACGA TCCTTCCT	20901
2631	GAAGGAGU G UGCGGUCU	3781	AGACCGCA GGCTAGCTACAACGA ACTCCTTC	20902
2633	AGGAGUGU G CGGUCUAC	3782	GTAGACCG GGCTAGCTACAACGA AACTCCT	20903
2636	AGUGUGCG G UCUCAGAU	3783	ATCGTAGA GGCTAGCTACAACGA CGCACACT	20904
2647	UACGAUCA G UUUCAGA	3784	TCTGGAAA GGCTAGCTACAACGA TGATCGTA	20905
2661	AGACUGGA G CAUCAAAU	3785	ATTTGATG GGCTAGCTACAACGA TCCAGTCT	20906
2670	CAUCAAAU G UGGGAAGC	3786	GCTTCCCA GGCTAGCTACAACGA ATTTGATG	20907
2677	UGUGGGAA G CAGUGAAG	3787	CTTCACTG GGCTAGCTACAACGA TTCCACAC	20908
2680	GGGAAGCA G UGAAGGAC	3788	GTCCTTCA GGCTAGCTACAACGA TGCTTCCC	20909
2691	AAGGACGA G CUGAACAC	3789	GTGTTTCA GGCTAGCTACAACGA TCGTCTTT	20910
2717	GGAGAAUG G UGUGGACC	3790	GGTCCACA GGCTAGCTACAACGA CATTCTCC	20911
2719	AGAAUGGU G UGGACCUU	3791	AAGGTCCA GGCTAGCTACAACGA ACCATTCT	20912
2729	GGACCUUA G UGUCGUGG	3792	CCACGACA GGCTAGCTACAACGA TAAGGTCC	20913
2731	ACCUUAGU G UCGUGGUU	3793	AACCACGA GGCTAGCTACAACGA ACTAAGGT	20914
2734	UUAGUGUC G UGUUGAG	3794	CTCAACCA GGCTAGCTACAACGA GACACTAA	20915
2737	UGUGCUGG G UUGAGAAA	3795	TTTCTCAA GGCTAGCTACAACGA CACGACAC	20916
2757	GAGGGAAU G UACAAGUC	3796	GACTTGTA GGCTAGCTACAACGA ATTCCCTC	20917
2763	AUGUACAA G UCAGCACC	3797	GGTGCTGA GGCTAGCTACAACGA TTGTACAT	20918
2767	ACAAGUCA G CACCUAAA	3798	TTTAGGTG GGCTAGCTACAACGA TGAATTGT	20919
2777	ACCUAAAC G CCUCACCG	3799	CGGTGAGG GGCTAGCTACAACGA GTTTAGGT	20920
2785	GCCUCACC G CCACCACG	3800	CGTGTGGG GGCTAGCTACAACGA GGTGAGGC	20921
2810	GGAAAUUG G CUGGAAGG	3801	CCTTCCAG GGCTAGCTACAACGA CAATTTCC	20922
2818	GCUGGAAG G CCUGGGGA	3802	TCCCCAGG GGCTAGCTACAACGA CTTCCAGC	20923
2831	GGGAAAGA G UAUUUUAU	3803	ATAAAATA GGCTAGCTACAACGA TCTTTCCC	20924
2842	UUUUAUUU G CACCAGAA	3804	TTCTGGTG GGCTAGCTACAACGA AAATAAAA	20925
2854	CAGAACUC G CCAACAAC	3805	GTTGTTGG GGCTAGCTACAACGA GAGTTCTG	20926
2869	ACACCUUU G UGUUGAU	3806	ATCAACCA GGCTAGCTACAACGA AAAGGTGT	20927
2872	CCUUGUG G UUGAUGGU	3807	ACCATCAA GGCTAGCTACAACGA CACAAAGG	20928
2879	GGUUGAUG G UCCGAGA	3808	TCTCCGGA GGCTAGCTACAACGA CATCAACC	20929
2897	CAAGGAU G UCCGACUC	3809	GAGTCGGA GGCTAGCTACAACGA ATTCTTTG	20930
2912	UCAGAAUC G CGCUUGGA	3810	TCCAAGCG GGCTAGCTACAACGA GATTCTGA	20931
2914	AGAAUCGC G CUUGGAAU	3811	ATTCCAAG GGCTAGCTACAACGA GCGATTCT	20932
2924	UUGGAUAU G CUUAGAAG	3812	CTTCTAAG GGCTAGCTACAACGA TATTCCAA	20933
2932	GCUUAGAA G UGGAGGAU	3813	ATCCTCCA GGCTAGCTACAACGA TTCTAAGC	20934
2951	UGGAUUG G UCUCACCA	3814	TGGTGAGA GGCTAGCTACAACGA CAAATCCA	20935
2960	UCUCACCA G CACUCGGA	3815	TCCGAGTG GGCTAGCTACAACGA TGGTGAGA	20936
2970	ACUCGGAU G UUCUGAA	3816	TTCAGGAA GGCTAGCTACAACGA ATCCGAGT	20937
2980	UCCUGAAG G UCAGAGAG	3817	CTCTCTGA GGCTAGCTACAACGA CTTCAGGA	20938
2990	CAGAGAGA G CAACACAA	3818	TTGTGTTG GGCTAGCTACAACGA TCTCTCTG	20939
3005	AACUGAAU G UGACUCGA	3819	TCGAGTCA GGCTAGCTACAACGA ATTCAAGT	20940
3028	UUGGAACG G CUGUCAAG	3820	CTTGACAG GGCTAGCTACAACGA CGTTCCAA	20941
3031	GAACGGCU G UCAAGAAC	3821	GTTCTTGA GGCTAGCTACAACGA AGCCGTTT	20942
3046	ACAACUUG G CGAUCCAC	3822	GTGGATCG GGCTAGCTACAACGA CAAGTTGT	20943
3056	GAUCCACA G UGACUUGU	3823	ACAGGTCA GGCTAGCTACAACGA TGTGGATC	20944
3063	AGUGACCU G UCCUAUUG	3824	CAATAGGA GGCTAGCTACAACGA AGGTCACT	20945
3080	GAUUGAAA G CAGGCUCA	3825	TGAGCCTG GGCTAGCTACAACGA TTTCATC	20946
3084	GAAAGCAG G CUCAAUGA	3826	TCATTGAG GGCTAGCTACAACGA CTGCTTTC	20947
3096	AAUGAUAC G UGGAAGCU	3827	AGCTTCCA GGCTAGCTACAACGA GTATCATT	20948
3102	ACGUGGAA G CUUGAAAG	3828	CTTTCAAG GGCTAGCTACAACGA TTCCACGT	20949
3112	UUGAAAGG G CAGUUCUG	3829	CAGAACTG GGCTAGCTACAACGA CCTTTCAA	20950

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3115	AAAGGGCA G UUCUGGGU	3830	ACCCAGAA GGCTAGCTACAACGA TGCCCTTT	20951
3122	AGUUCUGG G UGAAGUCA	3831	TGACTTCA GGCTAGCTACAACGA CCAGAACT	20952
3127	UGGGUGAA G UCAAUCA	3832	TGATTTGA GGCTAGCTACAACGA TTCACCCA	20953
3137	CAAAUCAU G UACGUGGC	3833	GCCACGTA GGCTAGCTACAACGA ATGATTTG	20954
3141	UCAUGUAC G UGGCCUGA	3834	TCAGGCCA GGCTAGCTACAACGA GTACATGA	20955
3144	UGUACGUG G CCUGAGAC	3835	GTCTCAGG GGCTAGCTACAACGA CACGTACA	20956
3153	CCUGAGAC G CAUACCUU	3836	AAGGTATG GGCTAGCTACAACGA GTCTCAGG	20957
3162	CAUACCUU G UGGGGCGA	3837	TCGCCCCA GGCTAGCTACAACGA AAGGTATG	20958
3167	CUUGUGGG G CGAUGGAA	3838	TTCCATCG GGCTAGCTACAACGA CCCACAAG	20959
3185	CCUUGAGA G UGACUUGA	3839	TCAAGTCA GGCTAGCTACAACGA TCTCAAGG	20960
3202	UAAUACCA G UCACACUG	3840	CAGTGTGA GGCTAGCTACAACGA TGGTATTA	20961
3211	UCACACUG G CGGGACCA	3841	TGGTCCCG GGCTAGCTACAACGA CAGTGTGA	20962
3224	ACCACGAA G CAAUCACA	3842	TGTGATTG GGCTAGCTACAACGA TTCGTGGT	20963
3246	AGACCUGG G UACAAGAC	3843	GTCTTGTA GGCTAGCTACAACGA CCAGGTCT	20964
3266	AAACCAGG G CCCAUGGG	3844	CCCATGGG GGCTAGCTACAACGA CCTGGTTT	20965
3281	GGACGAAG G CCGGGUAG	3845	CTACCCCG GGCTAGCTACAACGA CTTCGTCC	20966
3286	AAGGCCGG G UAGAGAUU	3846	AATCTCTA GGCTAGCTACAACGA CCGGCCTT	20967
3308	CGAUUACU G CCCAGGAA	3847	TTCTTGGG GGCTAGCTACAACGA AGTAATCG	20968
3322	GAACUACG G UCACCCUG	3848	CAGGGTGA GGCTAGCTACAACGA CGTAGTTC	20969
3332	CACCUGA G UGAGAGCU	3849	AGCTCTCA GGCTAGCTACAACGA TCAGGGTG	20970
3338	GAGUGAGA G CUGCGAC	3850	GTCCGCGG GGCTAGCTACAACGA TCTCAGTC	20971
3341	UGAGAGCU G CGGACACC	3851	GGTGTCCG GGCTAGCTACAACGA AGCTCTCA	20972
3350	CGGACACC G UGGACCUG	3852	CAGGTCCA GGCTAGCTACAACGA GGTGTCCG	20973
3358	GUGGACCU G CCACUCGC	3853	GCGAGTGG GGCTAGCTACAACGA AGGTCCAC	20974
3365	UGCCACUC G CACCACCA	3854	TGGTGGTG GGCTAGCTACAACGA GAGTGGCA	20975
3380	CACAGAGA G CGGAAAGU	3855	ACTTTCGG GGCTAGCTACAACGA TCTCTGTG	20976
3387	AGCGGAAA G UUGAUAA	3856	GTTATCAA GGCTAGCTACAACGA TTTCCGCT	20977
3402	ACAGAUUG G UGCUGCAG	3857	CTGCAGCA GGCTAGCTACAACGA CAATCTGT	20978
3404	AGAUUGGU G CUGCAGGA	3858	TCCTGCAG GGCTAGCTACAACGA ACCAATCT	20979
3407	UUGGUGCU G CAGGAGCU	3859	AGCTCCTG GGCTAGCTACAACGA AGCACCAG	20980
3413	CUGCAGGA G CUGCACCU	3860	AGGTGCAG GGCTAGCTACAACGA TCCTGCAG	20981
3416	CAGGAGCU G CACCUUAC	3861	GTAAGGTG GGCTAGCTACAACGA AGCTCCTG	20982
3432	CCACCACU G CGCUACCA	3862	TGGTAGCG GGCTAGCTACAACGA AGTGGTGG	20983
3434	ACCACUGC G CUACCAA	3863	TTTGGTAG GGCTAGCTACAACGA GCAGTGGT	20984
3449	AACUGACA G CGGUGUU	3864	AACAGCCG GGCTAGCTACAACGA TGTCAGTT	20985
3452	UGACAGCG G CUGUUGGU	3865	ACCAACAG GGCTAGCTACAACGA CGCTGTCA	20986
3455	CAGCGGCU G UUGGUUAG	3866	CATACCAA GGCTAGCTACAACGA AGCCGCTG	20987
3459	GGCUGUUG G UAUGGUU	3867	ATACCATA GGCTAGCTACAACGA CAACAGCC	20988
3464	UUGGUUUG G UAUGGAGA	3868	TCTCCATA GGCTAGCTACAACGA CATACCAA	20989
3505	AGACCUCU G UGCAGUCA	3869	TGACTGCA GGCTAGCTACAACGA GAGGTCT	20990
3507	ACCCUCGU G CAGUCACA	3870	TGTGACTG GGCTAGCTACAACGA ACGAGGGT	20991
3510	CUCGUGCA G UCACAAGU	3871	ACTTGTGA GGCTAGCTACAACGA TGCACGAG	20992
3517	AGUCACAA G UGAAUGCU	3872	AGCATTCA GGCTAGCTACAACGA TTGTGACT	20993
3523	AAGUGAAU G CUUAUAAU	3873	ATTATAAG GGCTAGCTACAACGA ATTCACTT	20994
3532	CUUAUAAU G CUGAUUUG	3874	CATATCAG GGCTAGCTACAACGA ATTATAAG	20995
3555	CCUUUACA G UUGGGCCU	3875	AGGCCCAA GGCTAGCTACAACGA TGAAAAGG	20996
3560	UCAGUUGG G CCUUCUGG	3876	CCAGAAGG GGCTAGCTACAACGA CCAACTGA	20997
3568	GCCUUCUG G UCGUGUUC	3877	GAACACGA GGCTAGCTACAACGA CAGAAGGC	20998
3571	UUCUGGUC G UGUUCUUG	3878	CAAGAACA GGCTAGCTACAACGA GACCAGAA	20999
3573	CUGGUCGU G UUCUUGGC	3879	GCCAAGAA GGCTAGCTACAACGA ACGACCAG	21000
3580	UGUUCUUG G CCACCCAG	3880	CTGGGTGG GGCTAGCTACAACGA CAAGAACA	21001
3592	CCCAGGAG G UCCUUCGC	3881	GCGAAGGA GGCTAGCTACAACGA CTCCTGGG	21002
3599	GGUCCUUC G CAAGAGGU	3882	ACCTCTTG GGCTAGCTACAACGA GAAGGACC	21003
3606	CGCAAGAG G UGGACAGC	3883	GCTGTCCA GGCTAGCTACAACGA CTCTTGCG	21004
3613	GGUGGACA G CCAAGAUC	3884	GATCTTGG GGCTAGCTACAACGA TGTCCACC	21005
3623	CAAGAUCA G CAUGCCAG	3885	CTGGCATG GGCTAGCTACAACGA TGATCTTG	21006
3627	AUCAGCAU G CCAGCUAU	3886	ATAGCTGG GGCTAGCTACAACGA ATGCTGAT	21007
3631	GCAUGCCA G CUUAUCUG	3887	CAGTATAG GGCTAGCTACAACGA TGGCATGC	21008
3643	UACUGAUU G CUCUGCUA	3888	TAGCAGAG GGCTAGCTACAACGA AATCAGTA	21009
3648	AUUGUCU G CUAGUCCU	3889	AGGACTAG GGCTAGCTACAACGA AGAGCAAT	21010
3652	CUCUGCUA G UCCUGGUG	3890	CACCAGGA GGCTAGCTACAACGA TAGCAGAG	21011
3658	UAGUCCUG G UGUUUGGG	3891	CCCAAACA GGCTAGCTACAACGA CAGGACTA	21012

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3660	GUCCUGGU G	UUUGGGG	3892	CCCCAAA	GGCTAGCTACAACGA	ACCAGGAC	21013
3668	GUUUGGGG G	CAUUACUU	3893	AAGTAATG	GGCTAGCTACAACGA	CCCCAAC	21014
3685	ACACUGAU G	UGUUACGC	3894	GCGTAACA	GGCTAGCTACAACGA	ATCAGTGT	21015
3687	ACUGAUGU G	UUACGCUA	3895	TAGCGTAA	GGCTAGCTACAACGA	ACATCAGT	21016
3692	UGUGUUAC G	CUAUGUCA	3896	TGACATAG	GGCTAGCTACAACGA	GTAACACA	21017
3697	UACGCUAU G	UCAUCUUG	3897	CAAGATGA	GGCTAGCTACAACGA	ATAGCGTA	21018
3706	UCAUCUUG G	UGGGGGCA	3898	TGCCCCCA	GGCTAGCTACAACGA	CAAGATGA	21019
3712	UGGUGGGG G	CAGCUUUC	3899	GAAAGCTG	GGCTAGCTACAACGA	CCCCACCA	21020
3715	UGGGGGCA G	CUUUCGCA	3900	TGCGAAAG	GGCTAGCTACAACGA	TGCCCCCA	21021
3721	CAGCUUUC G	CAGAAUCU	3901	AGATTCTG	GGCTAGCTACAACGA	GAAAGCTG	21022
3745	GAGGAGAC G	UGGUACAC	3902	GTGTACCA	GGCTAGCTACAACGA	GTCTCCTC	21023
3748	GAGACGUG G	UACACUUG	3903	CAAGTGTA	GGCTAGCTACAACGA	CACGTCTC	21024
3757	UACACUUG G	CGCUC AUG	3904	CATGAGCG	GGCTAGCTACAACGA	CAAGTGTA	21025
3759	CACUUGGC G	CUCAUGGC	3905	GCCATGAG	GGCTAGCTACAACGA	GCCAAGTG	21026
3766	CGCUC AUG G	CGACCUUC	3906	GAAGGTCG	GGCTAGCTACAACGA	CATGAGCG	21027
3787	UACAACCA G	UGUUUAUG	3907	CATAAACA	GGCTAGCTACAACGA	TGTTTGTA	21028
3789	CAACCAGU G	UUUAUGGU	3908	ACCATAAA	GGCTAGCTACAACGA	ACTGGTTG	21029
3796	UGUUUAUG G	UGGCAUCG	3909	CGATGCCA	GGCTAGCTACAACGA	CATAAACA	21030
3799	UUAUGGUG G	CAUCGUUU	3910	AAACGATG	GGCTAGCTACAACGA	CACATAAA	21031
3804	GUGGCAUC G	UUUCUCAA	3911	TTGAGAAA	GGCTAGCTACAACGA	GATGCCAC	21032
3814	UUCUCAAA G	CGAGAUGG	3912	CCATCTCG	GGCTAGCTACAACGA	TTTGAGAA	21033
3843	AACAUUUU G	UUGAUGUU	3913	AACATCAA	GGCTAGCTACAACGA	AAAATGTT	21034
3849	UUGUUGAU G	UUGGCGGC	3914	GCCGCCAA	GGCTAGCTACAACGA	ATCAACAA	21035
3853	UGAUGUUG G	CGGCUGUU	3915	AACAGCCG	GGCTAGCTACAACGA	CAACATCA	21036
3856	UGUUGGCG G	CUGUUUUC	3916	GAAAACAG	GGCTAGCTACAACGA	CGCCAACA	21037
3859	UGGCGGCU G	UUUUCUUU	3917	AAAGAAAA	GGCTAGCTACAACGA	AGCCGCCA	21038
3874	UUCAAAUG G	CUUAUCAC	3918	GTGATAAG	GGCTAGCTACAACGA	CATTTGAA	21039
3886	AUCACGAU G	CCCGCCAA	3919	TTGGCGGG	GGCTAGCTACAACGA	ATCGTGAT	21040
3890	CGAUGCCC G	CCAAAUUC	3920	GAATTGGG	GGCTAGCTACAACGA	GGGCATCG	21041
3900	CAAAUUCU G	CUCUGGGA	3921	TCCCAGAG	GGCTAGCTACAACGA	AGAATTTG	21042
3919	UCCCUGAU G	UGUUGAAU	3922	ATTCAACA	GGCTAGCTACAACGA	ATCAGGGA	21043
3921	CCUGAUGU G	UUGAAUUC	3923	GAATTCAA	GGCTAGCTACAACGA	ACATCAGG	21044
3934	AUUCACUG G	CGGUAGCU	3924	AGTACCCG	GGCTAGCTACAACGA	CAGTGAAT	21045
3937	CACUGGCG G	UAGCUUGG	3925	CCAAGCTA	GGCTAGCTACAACGA	CGCCAGTG	21046
3940	UGGCGGUA G	CUUGGAUG	3926	CATCCAAG	GGCTAGCTACAACGA	TACCGCCA	21047
3958	UACUGAGA G	CCAUAACA	3927	TGTTATGG	GGCTAGCTACAACGA	TCTCAGTA	21048
3985	CAUCAAAC G	UGGUUGUU	3928	AACAACCA	GGCTAGCTACAACGA	GTTTGATG	21049
3988	CAAACGUG G	UUGUUCUG	3929	CGGAACAA	GGCTAGCTACAACGA	CACGTTTG	21050
3991	ACGUGGUU G	UUCGCGUG	3930	CAGCGGAA	GGCTAGCTACAACGA	AACCACGT	21051
3996	GUUGUUCG G	CUGCUAGC	3931	GCTAGCAG	GGCTAGCTACAACGA	GGAACAAC	21052
3999	GUUCCGCU G	CUAGCCCU	3932	AGGGCTAG	GGCTAGCTACAACGA	AGCGGAAC	21053
4003	CGCUGCUA G	CCUUGCUA	3933	TAGCAGGG	GGCTAGCTACAACGA	TAGCAGCG	21054
4008	CUAGCCCU G	CUAACACC	3934	GGTGTAG	GGCTAGCTACAACGA	AGGGCTAG	21055
4020	ACACCCGG G	CUGAGAUG	3935	CATCTCAG	GGCTAGCTACAACGA	CCGGGTGT	21056
4028	GCUGAGAU G	CUUGAAUC	3936	GATTCAAG	GGCTAGCTACAACGA	ATCTCAGC	21057
4042	AUCUGGAU G	UGUACAGG	3937	CCTGTACA	GGCTAGCTACAACGA	ATCCAGAT	21058
4044	CUGGAUGU G	UACAGGAU	3938	ATCCTGTA	GGCTAGCTACAACGA	ACATCCAG	21059
4056	AGGAUACU G	CUGUUGAU	3939	ATCAACAG	GGCTAGCTACAACGA	AGTATCCT	21060
4059	AUACUGCU G	UUGAUGGU	3940	ACCATCAA	GGCTAGCTACAACGA	AGCAGTAT	21061
4066	UGUUGAUG G	UCGGAUUA	3941	TATTCCGA	GGCTAGCTACAACGA	CATCAACA	21062
4076	CGGAUAG G	CAGCUUGA	3942	TCAAGCTG	GGCTAGCTACAACGA	CTATTCCG	21063
4079	AAUAGGCA G	CUUGAUCA	3943	TGATCAAG	GGCTAGCTACAACGA	TGCCTATT	21064
4100	GAAGAGGA G	UGCAGCUG	3944	CAGCTGCA	GGCTAGCTACAACGA	TCCTCTTC	21065
4102	AGAGGAGU G	CAGCUGCA	3945	TGCGACTG	GGCTAGCTACAACGA	ACTCCTCT	21066
4105	GGAGUGCA G	CUGCAAAA	3946	TTTTCGAG	GGCTAGCTACAACGA	TGCACTCC	21067
4108	GUGCAGCU G	CAAAAAAG	3947	CTTTTTCG	GGCTAGCTACAACGA	AGCTGCAC	21068
4123	AGAAAGGA G	CAAGUCUG	3948	CAGACTTG	GGCTAGCTACAACGA	TCCTTTCT	21069
4127	AGGAGCAA G	UCUGCUAU	3949	ATAGCAGA	GGCTAGCTACAACGA	TTGCTCCT	21070
4131	GCAAGUCU G	CUAUGC UU	3950	AAGCATAG	GGCTAGCTACAACGA	AGACTTGC	21071
4136	UCUGCUAU G	CUUGGCUC	3951	GAGCCAAG	GGCTAGCTACAACGA	ATAGCAGA	21072
4141	UAUGCUUG G	CUCUAGCC	3952	GGCTAGAG	GGCTAGCTACAACGA	CAAGCATA	21073
4147	UGGCUCUA G	CCUCAACA	3953	TGTTGAGG	GGCTAGCTACAACGA	TAGAGCCA	21074

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4180	UGAUCCUU G CUGCUGGA	3954	TCCAGCAG GGCTAGCTACAACGA AAGGATCA	21075
4183	UCCUUGCU G CUGGACUG	3955	CAGTCCAG GGCTAGCTACAACGA AGCAAGGA	21076
4195	GACUGAUU G CAUGUGAU	3956	ATCACATG GGCTAGCTACAACGA AATCAGTC	21077
4199	GAUUGCAU G UGAUCCCA	3957	TGGGATCA GGCTAGCTACAACGA ATGCAATC	21078
4211	UCCCAACC G UAAACGCG	3958	CGCGTTTA GGCTAGCTACAACGA GGTGCGGA	21079
4217	CCGUAAAC G CGGAUGGC	3959	GCCATCCG GGCTAGCTACAACGA GTTTACGG	21080
4224	CGCGGAUG G CCCGCAAC	3960	GTGCGGG GGCTAGCTACAACGA CATCCGCG	21081
4228	GAUGGCCC G CAACUGAA	3961	TTCAGTTG GGCTAGCTACAACGA GGGCCATC	21082
4237	CAACUGAA G UGAUGACA	3962	TGTCATCA GGCTAGCTACAACGA TTCAGTTG	21083
4246	UGAUGACA G CUGUCGCG	3963	GCCGACAG GGCTAGCTACAACGA TGTCATCA	21084
4249	UGACAGCU G UCGGCCUA	3964	TAGGCCGA GGCTAGCTACAACGA AGCTGTCA	21085
4253	AGCUGUCG G CCUAAUGU	3965	ACATTAGG GGCTAGCTACAACGA CGACAGCT	21086
4260	GGCCUAAU G UUUGCCAU	3966	ATGGCAAA GGCTAGCTACAACGA ATTAGGCC	21087
4264	UAAUGUUU G CCAUCGUC	3967	GACGATGG GGCTAGCTACAACGA AAACATTA	21088
4270	UUGCCAUC G UCGGAGGG	3968	CCCTCCGA GGCTAGCTACAACGA GATGGCAA	21089
4278	GUCGGAGG G CUGGCAGA	3969	TCTGCCAG GGCTAGCTACAACGA CCTCCGAC	21090
4282	GAGGGCUG G CAGAGCUU	3970	AAGCTCTG GGCTAGCTACAACGA CAGCCCTC	21091
4287	CUGGCAGA G CUUGACAU	3971	ATGTCAAG GGCTAGCTACAACGA TCTGCCAG	21092
4306	ACUCCAUG G CCAUUGCA	3972	TGGAATGG GGCTAGCTACAACGA CATGGAGT	21093
4324	UGACUUAUC G CGGGGCUC	3973	GAGCCCCG GGCTAGCTACAACGA GATAGTCA	21094
4329	AUCGCGGG G CUCAUGUU	3974	AACATCAG GGCTAGCTACAACGA CCCGCGAT	21095
4335	GGGCUCAU G UUUGCUGC	3975	GCAGCAAA GGCTAGCTACAACGA ATGAGCCC	21096
4339	UCAUGUUU G CUGCUUUC	3976	GAAAGCAG GGCTAGCTACAACGA AAACATGA	21097
4342	UGUUUGCU G CUUUCGUG	3977	CACGAAAG GGCTAGCTACAACGA AGCAAACA	21098
4348	CUGCUUUC G UGAUUUCU	3978	AGAAATCA GGCTAGCTACAACGA GAAAGCAG	21099
4374	ACAGAUAU G UGGAUUGA	3979	TCAATCCA GGCTAGCTACAACGA ATATCTGT	21100
4390	AGAGAACG G CGGACAUU	3980	AATGTCCG GGCTAGCTACAACGA CGTTCTCT	21101
4409	CUGGGAAA G UGAUGCAG	3981	CTGCATCA GGCTAGCTACAACGA TTTCCAG	21102
4414	AAAGUGAU G CAGAAAUU	3982	AATTTCTG GGCTAGCTACAACGA ATCACTTT	21103
4427	AAUUCAG G CUCGAGCG	3983	CGCTCTAG GGCTAGCTACAACGA CTGTAATT	21104
4433	AGGCUCA G CGAAAGAG	3984	CTCTTTTC GGCTAGCTACAACGA TCGAGCCT	21105
4441	GCGAAAGA G UUGAUGUG	3985	CACATCAA GGCTAGCTACAACGA TCTTTCGC	21106
4447	GAGUUGAU G UGCGGCUU	3986	AAGCCGCA GGCTAGCTACAACGA ATCAACTC	21107
4449	GUUGAUGU G CGGCUUGA	3987	TCAAGCCG GGCTAGCTACAACGA ACATCAAC	21108
4452	GAUGUGCG G CUUGAUGA	3988	TCATCAAG GGCTAGCTACAACGA CGCACATC	21109
4476	AACUUGCA G CUCAUGAA	3989	TTCATGAG GGCTAGCTACAACGA TGGAAGTT	21110
4495	AUCCAGGA G CACCUUGG	3990	CCAAGGTG GGCTAGCTACAACGA TCCTGGAT	21111
4515	AUAUGGAU G CUCAGAAU	3991	ATTCTGAG GGCTAGCTACAACGA ATCCATAT	21112
4525	UCAGAUG G UCUGUCUC	3992	GAGACAGA GGCTAGCTACAACGA CATTCTGA	21113
4529	AAUGGUCU G UCUCGCGA	3993	TCGCGAGA GGCTAGCTACAACGA AGACCATT	21114
4534	UCUGUCUC G CGAUUAGU	3994	ACTAATCG GGCTAGCTACAACGA GAGACAGA	21115
4541	CGCAUUA G UGCGUACA	3995	TGTACGCA GGCTAGCTACAACGA TAATCGCG	21116
4543	CGAUUAGU G CGUACACC	3996	GGTGTACG GGCTAGCTACAACGA ACTAATCG	21117
4545	AUUAGUGC G UACACCCC	3997	GGGGTGTA GGCTAGCTACAACGA GCCTAAT	21118
4558	CCCCUUG G CAAUCUUG	3998	CAAGATTG GGCTAGCTACAACGA CCAGGGGG	21119
4566	GCAAUCUU G CCCUCAGU	3999	ACTGAGGG GGCTAGCTACAACGA AAGATTGC	21120
4573	UGCCCUCA G UAGUUGGA	4000	TCCAACTA GGCTAGCTACAACGA TGAGGGCA	21121
4576	CCUCAGUA G UUGGAUUU	4001	AAATCCAA GGCTAGCTACAACGA TACTGAGG	21122
4616	GAGAGGAG G CGUGUUGU	4002	ACAACACG GGCTAGCTACAACGA CTCCTCTC	21123
4618	GAGGAGGC G UGUUGUGG	4003	CCACAACA GGCTAGCTACAACGA GCCTCCTC	21124
4620	GGAGGCGU G UUGUGGGA	4004	TCCCACAA GGCTAGCTACAACGA ACGCCTCC	21125
4623	GGCGUGUU G UGGGACAC	4005	GTGTCCCA GGCTAGCTACAACGA AACACGCC	21126
4647	CCAAAGGA G UACAAAAA	4006	TTTTTGTA GGCTAGCTACAACGA TCCTTTGG	21127
4673	GACCACCG G CGUCUACA	4007	TGTAGACG GGCTAGCTACAACGA CGGTGGTC	21128
4675	CCACCGGC G UCUACAGG	4008	CCTGTAGA GGCTAGCTACAACGA GCCGGTGG	21129
4694	CAUGACUC G UGGGCGGC	4009	GCAGCCCA GGCTAGCTACAACGA GAGTCATG	21130
4698	ACUCGUGG G CUGCUCGG	4010	CCGAGCAG GGCTAGCTACAACGA CCACGAGT	21131
4701	CGUGGGCU G CUCGGCAG	4011	CTGCCGAG GGCTAGCTACAACGA AGCCACAG	21132
4706	GCUGCUCG G CAGUUAUC	4012	GATAACTG GGCTAGCTACAACGA CGAGCAGC	21133
4709	GCUCGCGA G UUAUCAAG	4013	CTTGATAA GGCTAGCTACAACGA TGCCGAGC	21134
4717	GUUAUCAA G CAGGAGCG	4014	CGCTCCTG GGCTAGCTACAACGA TTGATAAC	21135
4723	AAGCAGGA G CGGGCGUG	4015	CACGCCCG GGCTAGCTACAACGA TCCTGCTT	21136

4727	AGGAGCGG G CGUGAUGG	4016	CCATCACG GGCTAGCTACAACGA CCGCTCCT	21137
4729	GAGCGGGC G UGAUGGUU	4017	AACCATCA GGCTAGCTACAACGA GCCCGCTC	21138
4735	GCGUGAUG G UUGAAGGU	4018	ACCTTCAA GGCTAGCTACAACGA CATCACGC	21139
4742	GGUUGAAG G UGUUUUCC	4019	GGAAAAA GGCTAGCTACAACGA CTTC AAC	21140
4744	UGAAGGU G UUUUCCAC	4020	GTGGA AAA GGCTAGCTACAACGA ACCTTCAA	21141
4761	ACCCUUUG G CAUACAAC	4021	GTTGTATG GGCTAGCTACAACGA CAAAGGGT	21142
4777	CAAAGGA G CCGCUUUG	4022	CAAAGCGG GGCTAGCTACAACGA TCCTTTTG	21143
4780	AAGGAGCC G CUUUGAUG	4023	CATCAAAG GGCTAGCTACAACGA GGCTCCTT	21144
4790	UUUGAUGA G CGGAGAGG	4024	CCTCTCCG GGCTAGCTACAACGA TCATCAA	21145
4799	CGGAGAGG G CCGCCUGG	4025	CCAGGCGG GGCTAGCTACAACGA CCTCTCCG	21146
4802	AGAGGGCC G CCUGGACC	4026	GGTCCAGG GGCTAGCTACAACGA GGCCCTCT	21147
4820	AUACUGGG G CAGUGUCA	4027	TGACACTG GGCTAGCTACAACGA CCCAGTAT	21148
4823	CUGGGGCA G UGUCAAGG	4028	CCTTGACA GGCTAGCTACAACGA TGCCCCAG	21149
4825	GGGGCAGU G UCAAGGAG	4029	CTCCTTGA GGCTAGCTACAACGA ACTGCCCC	21150
4844	UCGACUUU G UUACGGAG	4030	CTCCGTAA GGCTAGCTACAACGA AAAGTCGA	21151
4866	UGGAAAUU G CAGCACAA	4031	TTGTGCTG GGCTAGCTACAACGA AATTTCCA	21152
4869	AAAUUGCA G CACAAGUG	4032	CACTTGTG GGCTAGCTACAACGA TGCAATTT	21153
4875	CAGCACAA G UGGAACGG	4033	CCGTTCGA GGCTAGCTACAACGA TTGTGCTG	21154
4884	UGGAACGG G CAGGAUGA	4034	TCATCTGT GGCTAGCTACAACGA CCGTTCCA	21155
4894	AGGAUGAG G UGCAGAUG	4035	CATCTGCA GGCTAGCTACAACGA CTATCCT	21156
4896	GAUGAGGU G CAGAUGAU	4036	ATCATCTG GGCTAGCTACAACGA ACCTCATC	21157
4906	AGAUGAUU G UGGUGGAA	4037	TTCCACCA GGCTAGCTACAACGA AATCATCT	21158
4909	UGAUUGUG G UGGAACCU	4038	AGGTTCCA GGCTAGCTACAACGA CACAATCA	21159
4919	GGAAACCUG G CAAGAACG	4039	CGTTCCTG GGCTAGCTACAACGA CAGGTTCC	21160
4927	GCAAGAAC G UUAAGAAC	4040	GTTCTTAA GGCTAGCTACAACGA GTTCTTGC	21161
4936	UUAAGAAC G UCCAGACG	4041	CGTCTGGA GGCTAGCTACAACGA GTTCTTAA	21162
4954	AACCAGGG G UGUUCAAA	4042	TTTGAACA GGCTAGCTACAACGA CCTGCGTT	21163
4956	CCAGGGGU G UUCAAAAC	4043	GTTTTGAA GGCTAGCTACAACGA ACCCTTGG	21164
4984	AAAUCCGG G CCGUGACU	4044	AGTCACGG GGCTAGCTACAACGA CCCGATTT	21165
4987	UCGGGGCC G UGACUUUG	4045	CAAAGTCA GGCTAGCTACAACGA GGCCCCGA	21166
5018	AACAUCAG G CUCACCAA	4046	TTGGTGAG GGCTAGCTACAACGA CTGATGTT	21167
5029	CACCAUAU G UGGACAAA	4047	TTTGTCCA GGCTAGCTACAACGA TATTGGTG	21168
5042	CAAAAACG G UGAUGUGA	4048	TCACATCA GGCTAGCTACAACGA CGTTTTTG	21169
5047	ACGGUGAU G UGAUUGGG	4049	CCCAATCA GGCTAGCTACAACGA ATCACCCT	21170
5055	GUGAUUGG G CUUUAUGG	4050	CCATAAAG GGCTAGCTACAACGA CCAATCAC	21171
5063	GUUUUAUG G CAUUGGAG	4051	CTCCATTG GGCTAGCTACAACGA CATAAAGC	21172
5071	GCAAUGGA G UCAUAAUG	4052	CATTATGA GGCTAGCTACAACGA TCCATTGC	21173
5079	GUCAUAU G CCCAACGG	4053	CCGTGCGG GGCTAGCTACAACGA ATTATGAC	21174
5087	GCCCAACG G CUCAUACA	4054	TGTATGAG GGCTAGCTACAACGA CGTTGGGC	21175
5099	AUACAUAU G CGCGAUAG	4055	CTATCGCG GGCTAGCTACAACGA TTATGTAT	21176
5101	ACAUAGC G CGAUAGUG	4056	CACTATCG GGCTAGCTACAACGA GCTTATGT	21177
5107	GCGCGAUA G UGCAGGGU	4057	ACCCTGCA GGCTAGCTACAACGA TATCGCGC	21178
5109	GCGAUAGU G CAGGGUGA	4058	TCACCCTG GGCTAGCTACAACGA ACTATCGC	21179
5114	AGUGCAGG G UGAAAGGA	4059	TCCTTTCA GGCTAGCTACAACGA CCTGCACT	21180
5130	AUGGAUGA G CCAAUCCC	4060	GGGATTGG GGCTAGCTACAACGA TCATCCAT	21181
5140	CAAUCCCA G CCGGAUUC	4061	GAATCCGG GGCTAGCTACAACGA TGGGATTG	21182
5160	CCUGAGAU G CUGAGGAA	4062	TTCTCTAG GGCTAGCTACAACGA ATCTCAGG	21183
5182	AGAUCACU G UACUGGAU	4063	ATCCAGTA GGCTAGCTACAACGA AGTGATCT	21184
5201	CCAUCCCG G CGCCGGUA	4064	TACCGCGG GGCTAGCTACAACGA CGGGATGG	21185
5203	AUCCCGGC G CCGGUAAA	4065	TTTACCGG GGCTAGCTACAACGA GCCGGGAT	21186
5207	CGGCGCCG G UAAAAACA	4066	TTGTTTFA GGCTAGCTACAACGA CGGCGCCG	21187
5226	AGGAUUCU G CCACAGAU	4067	ATCTGTGG GGCTAGCTACAACGA AGAATCCT	21188
5245	UCAAGAG G CCAUAAAC	4068	GTTTATGG GGCTAGCTACAACGA CTCTTTGA	21189
5269	UGAGAACA G CCGUGCUA	4069	TAGCACGG GGCTAGCTACAACGA TGTCTCA	21190
5272	GAACAGCC G UGCUAGCA	4070	TGCTAGCA GGCTAGCTACAACGA GGCTGTTT	21191
5274	ACAGCCGU G CUAGCACC	4071	GGTGCTAG GGCTAGCTACAACGA ACGGCTGT	21192
5278	CCGUGCUA G CACCAACC	4072	GGTTGGTG GGCTAGCTACAACGA TAGCACGG	21193
5290	CAACCAGG G UUGUGGCU	4073	AGCCACAA GGCTAGCTACAACGA CCTGGTTG	21194
5293	CCAGGGUU G UGGUGUCU	4074	AGCAGCCA GGCTAGCTACAACGA AACCTTGG	21195
5296	GGGUUGUG G CUGCUGAG	4075	CTCAGCAG GGCTAGCTACAACGA CACAACCC	21196
5299	UUGUGGCU G CUGAGAUG	4076	CATCTCAG GGCTAGCTACAACGA AGCCACAA	21197
5308	CUGAGAUG G CUGAAGCA	4077	TGCTTCAG GGCTAGCTACAACGA CATCTCAG	21198

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5314	UGGCUGAA G CACUGAGA	4078	TCTCAGTG GGCTAGCTACAACGA TTCAGCCA	21199
5328	AGAGGACU G CCCAUCCG	4079	CGGATGGG GGCTAGCTACAACGA AGTCCTCT	21200
5337	CCCAUCCG G UACCAGAC	4080	GTCTGGTA GGCTAGCTACAACGA CGGATGGG	21201
5350	AGACAUCC G CAGUGCCC	4081	GGGCACTG GGCTAGCTACAACGA GGATGTCT	21202
5353	CAUCCGCA G UGCCCAGA	4082	TCTGGGCA GGCTAGCTACAACGA TGCGGATG	21203
5355	UCCGCAGU G CCCAGAGA	4083	TCTCTGGG GGCTAGCTACAACGA ACTGCGGA	21204
5383	AUGAGAUU G UUGAUGUC	4084	GACATCAA GGCTAGCTACAACGA AATCTCAT	21205
5389	UUGUUGAU G UCAUGUGU	4085	ACACATGA GGCTAGCTACAACGA ATCAACAA	21206
5394	GAUGUCAU G UGUCAUGC	4086	GCATGACA GGCTAGCTACAACGA ATGACATC	21207
5396	UGUCAUGU G UCAUGCUA	4087	TAGCATGA GGCTAGCTACAACGA ACATGACA	21208
5401	UGUGUCAU G CUACCUC	4088	GAGGGTAG GGCTAGCTACAACGA ATGACACA	21209
5418	ACCCACAG G CUGAUGUC	4089	GACATCAG GGCTAGCTACAACGA CTGTGGGT	21210
5424	AGGCUGAU G UCUCUCA	4090	TGAGGAGA GGCTAGCTACAACGA ATCAGCCT	21211
5437	CUCACAGG G UGCCGAAC	4091	GTTCCGCA GGCTAGCTACAACGA CCTGTGAG	21212
5439	CACAGGGU G CCGAACUA	4092	TAGTTCGG GGCTAGCTACAACGA ACCCTGTG	21213
5454	UACAACCU G UUCGUGAU	4093	ATCACGAA GGCTAGCTACAACGA AGGTTGTA	21214
5458	ACCGUUC G UGAUGGAU	4094	ATCCATCA GGCTAGCTACAACGA GAACAGGT	21215
5470	UGGAUGAG G CUCAUUC	4095	GAAATGAG GGCTAGCTACAACGA CTCATCCA	21216
5488	CCGACCCA G CUAGCAUU	4096	AATGCTAG GGCTAGCTACAACGA TGGGTCGG	21217
5492	CCAGCUA G CAUUGCAG	4097	CTGCAATG GGCTAGCTACAACGA TAGCTGGG	21218
5497	CUAGCAUU G CAGCAAGA	4098	TCTTGTCT GGCTAGCTACAACGA AATGCTAG	21219
5500	GCAUUGCA G CAAGAGGU	4099	ACCTCTTG GGCTAGCTACAACGA TGCAATGC	21220
5507	AGCAAGAG G UUAUUAU	4100	AAATGTAA GGCTAGCTACAACGA CTCTTGCT	21221
5524	CCACAAAG G UCGAGCUA	4101	TAGCTCGA GGCTAGCTACAACGA CTTTGTGG	21222
5529	AAGGUCGA G CUAGGGGA	4102	TCCCCTAG GGCTAGCTACAACGA TCGACCTT	21223
5539	UAGGGGAG G CGGCGGCA	4103	TGCCGCGG GGCTAGCTACAACGA CTCCCCTA	21224
5542	GGGAGGCG G CGGCAUA	4104	TATTGCCG GGCTAGCTACAACGA CGCCTCCC	21225
5545	AGGCGGCG G CAUAUUC	4105	GAATATTG GGCTAGCTACAACGA CGCCGCTT	21226
5560	UCAUGACA G CCACCCA	4106	TGGGGTGG GGCTAGCTACAACGA TGTATGA	21227
5573	CCCACAG G CACUUCAG	4107	CTGAAGTG GGCTAGCTACAACGA CTGGTGGG	21228
5595	UUCCCAGA G UCCAAUUC	4108	GAATTGGA GGCTAGCTACAACGA TCTGGGAA	21229
5641	CGGAUCGA G CUUGGAAC	4109	GTTCCAAG GGCTAGCTACAACGA TCGATCCG	21230
5689	GGAAGACG G UUUGGUUU	4110	AAACCAA GGCTAGCTACAACGA CGTCTTCC	21231
5694	ACGGUUG G UUUGUCC	4111	GGCACAAA GGCTAGCTACAACGA CAAACCGT	21232
5698	UUUGGUUU G UGCCUAGU	4112	ACTAGGCA GGCTAGCTACAACGA AAACCAA	21233
5700	UGGUUUGU G CCUAGUGU	4113	ACACTAGG GGCTAGCTACAACGA ACAACCA	21234
5705	UGUGCCUA G UGUCAAGA	4114	TCTTGACA GGCTAGCTACAACGA TAGGACA	21235
5707	UGCCUAGU G UCAAGAUG	4115	CATCTTGA GGCTAGCTACAACGA ACTAGCA	21236
5728	AUGAGAUU G CCCUUGC	4116	GCAAAGGG GGCTAGCTACAACGA AATCTCAT	21237
5735	UGCCCUUU G CCUACAAC	4117	GTTGTAGG GGCTAGCTACAACGA AAAGGCA	21238
5744	CCUACAAC G UGUGGAA	4118	TTCCAGCA GGCTAGCTACAACGA GTTGTAGG	21239
5746	UACAACGU G CUGGAAAG	4119	CTTTCAG GGCTAGCTACAACGA ACGTTGTA	21240
5758	GAAAGAAA G UAGUCAA	4120	TGGACTA GGCTAGCTACAACGA TTTCTTTC	21241
5761	AGAAAGUA G UCCAAUUG	4121	CAATTGGA GGCTAGCTACAACGA TACTTTCT	21242
5778	AACAGAAA G UCGUACGA	4122	TCGTACGA GGCTAGCTACAACGA TTTCTGTT	21243
5781	AGAAAGUC G UACGAGAC	4123	GTCTCGTA GGCTAGCTACAACGA GACTTTCT	21244
5793	GAGACGGA G UACCCAAA	4124	TTTGGGTA GGCTAGCTACAACGA TCCGTCTC	21245
5804	CCCAAAAU G UAAGAAG	4125	CGTTCTTA GGCTAGCTACAACGA ATTTTGGG	21246
5827	GGGACUUU G UUAUCACA	4126	TGTGATAA GGCTAGCTACAACGA AAAGTCCC	21247
5857	AAAUAGGG G CUAACUUC	4127	GAAGTTAG GGCTAGCTACAACGA CCCATT	21248
5869	ACUUCAG G CGAGCAGG	4128	CCTGCTCG GGCTAGCTACAACGA CTTGAAGT	21249
5873	CAAGGCGA G CAGGGUGA	4129	TCACCCTG GGCTAGCTACAACGA TCGCCTTG	21250
5878	CGAGCAGG G UGAUUGAC	4130	GTCATCA GGCTAGCTACAACGA CCTGCTCG	21251
5888	GAUUGACA G CCGGAAGA	4131	TCTTCCGG GGCTAGCTACAACGA TGTCAATC	21252
5897	CCGGAAGA G UGUGAAAC	4132	GTTTCCA GGCTAGCTACAACGA TCTTCCGG	21253
5899	GGAAGAGU G UGAAACCA	4133	TGGTTTCA GGCTAGCTACAACGA ACTCTTCC	21254
5935	AAGGGAGA G UGAUCCUG	4134	CAGGATCA GGCTAGCTACAACGA TCTCCCTT	21255
5956	AACCAUCU G CAGUGACA	4135	TGTCCTG GGCTAGCTACAACGA AGATGGTT	21256
5959	CAUCUGCA G UGACAGCA	4136	TGCTGTCA GGCTAGCTACAACGA TGCAGATG	21257
5965	CAGUGACA G CAGCUAGU	4137	ACTAGCTG GGCTAGCTACAACGA TGTCCTG	21258
5968	UGACAGCA G CUAGUGCC	4138	GGCACTAG GGCTAGCTACAACGA TGCTGTCA	21259
5972	AGCAGCUA G UGCCGCC	4139	GGGCGGCA GGCTAGCTACAACGA TAGCTGCT	21260

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5974	CAGCUAGU G CCGCCAG	4140	CTGGGCGG GGCTAGCTACAACGA ACTAGCTG	21261
5977	CUAGUGCC G CCCAGAGA	4141	TCTCTGGG GGCTAGCTACAACGA GGCACCTAG	21262
5987	CCAGAGAC G UGGACGUA	4142	TACGTCCA GGCTAGCTACAACGA GTCTCTGG	21263
5993	ACGUGGAC G UAUCGGUA	4143	TACCGATA GGCTAGCTACAACGA GTCCACGT	21264
5999	ACGUAUCG G UAGAAUUC	4144	GATTCTTA GGCTAGCTACAACGA CGATACGT	21265
6009	AGAAAUCC G UCGCAAGU	4145	ACTTGC GA GGCTAGCTACAACGA GGATTTCT	21266
6012	AAUCCGUC G CAAGUUGG	4146	CCAACCTG GGCTAGCTACAACGA GACGGATT	21267
6016	CGUCGCAA G UUGGUGAU	4147	ATCACCAA GGCTAGCTACAACGA TTGCGACG	21268
6020	GCAAGUUG G UGAUGAGU	4148	ACTCATCA GGCTAGCTACAACGA CAACTTGC	21269
6027	GGUGAUGA G UACUGUUA	4149	TAACAGTA GGCTAGCTACAACGA TCATCACC	21270
6032	UGAGUACU G UUAUGGGG	4150	CCCCATAA GGCTAGCTACAACGA AGTACTCA	21271
6042	UAUGGGGG G CACACGAA	4151	TTCTGTGT GGCTAGCTACAACGA CCCCCATA	21272
6070	CGAACUUC G CCCAUUGG	4152	CCAATGGG GGCTAGCTACAACGA GAAGTTCC	21273
6085	GGACUGAG G CACGAAUC	4153	GATTCGTG GGCTAGCTACAACGA CTCAGTCC	21274
6096	CGAAUCAU G CUGGACAA	4154	TTGTCCAG GGCTAGCTACAACGA ATGATTCG	21275
6114	AUCAACAU G CCAAACGG	4155	CCGTTTGG GGCTAGCTACAACGA ATGTTGAT	21276
6130	GACUGAUC G CUCAAUUC	4156	GAATTGAG GGCTAGCTACAACGA GATCAGTC	21277
6150	CAACCAGA G CGUGAGAA	4157	TTCTCACG GGCTAGCTACAACGA TCTGGTTG	21278
6152	ACCAGAGC G UGAGAAGG	4158	CTTCTCTA GGCTAGCTACAACGA GCTCTGGT	21279
6160	GUGAGAAG G UAUUACC	4159	GGTATATA GGCTAGCTACAACGA CTCTCTAC	21280
6186	GAAUACCG G CUCAGAGG	4160	CCTCTGAG GGCTAGCTACAACGA CGGTATTC	21281
6222	CUGGAACU G UUGAGGAC	4161	GTCTCTCA GGCTAGCTACAACGA AGTCTCCAG	21282
6232	UGAGGACU G CAGAUCUG	4162	CAGATCTG GGCTAGCTACAACGA AGTCTCTA	21283
6240	GCAGAUCU G CCAGUUUG	4163	CAAACCTG GGCTAGCTACAACGA AGATCTGC	21284
6244	AUCUGCCA G UUUGGCUG	4164	CAGCCAAA GGCTAGCTACAACGA TGGCAGAT	21285
6249	CCAGUUUG G CUGGCUUA	4165	TAAGCCAG GGCTAGCTACAACGA CAAACTGG	21286
6253	UUUGGCUG G CUUACAAG	4166	CTTGTAAG GGCTAGCTACAACGA CAGCCAAA	21287
6262	CUUACAAG G UUGCAGCG	4167	CGCTGCAA GGCTAGCTACAACGA CTTGTAAG	21288
6265	ACAAGGUU G CAGCGGCU	4168	AGCCGCTG GGCTAGCTACAACGA AACCTTGT	21289
6268	AGGUUGCA G CGGCUUGA	4169	TCCAGCCG GGCTAGCTACAACGA TGCAACCT	21290
6271	UUGCAGCG G CUGGAGUG	4170	CACTCCAG GGCTAGCTACAACGA CGCTGCAA	21291
6277	CGGCUUGA G UGUCAUAC	4171	GTATGACA GGCTAGCTACAACGA TCCAGCCG	21292
6279	GCUGGAGU G UCAUACCA	4172	TGGTATGA GGCTAGCTACAACGA ACTCCAGC	21293
6297	GACCGGAG G UGGUGCUU	4173	AAGCACCA GGCTAGCTACAACGA CTCCGGTC	21294
6300	CGGAGGUG G UGUUUUGA	4174	TCAAAGCA GGCTAGCTACAACGA CACCTCCG	21295
6302	GAGGUGGU G CUUUGAUG	4175	CATCAAAG GGCTAGCTACAACGA ACCACCTC	21296
6311	CUUUGAUG G UCCUAGGA	4176	TCCTAGGA GGCTAGCTACAACGA CATCAAAG	21297
6349	ACAACGAA G UGGAAGUC	4177	GACTTCCA GGCTAGCTACAACGA TTCGTTGT	21298
6355	AAGUGGAA G UCAUCACG	4178	CGTGATGA GGCTAGCTACAACGA TTCCACTT	21299
6366	AUCACGAA G CUUGGUGA	4179	TCACCAAG GGCTAGCTACAACGA TTCGTGAT	21300
6371	GAAGCUUG G UGAAAGGA	4180	TCCTTTCA GGCTAGCTACAACGA CAAGCTTC	21301
6390	AUUCUGAG G CCGCGCUG	4181	CAGCGCGG GGCTAGCTACAACGA CTCAGAAT	21302
6393	CUGAGGCC G CGCUGGAU	4182	ATCCAGCG GGCTAGCTACAACGA GGCCTCAG	21303
6395	GAGGCCGC G CUGGAUUG	4183	CAATCCAG GGCTAGCTACAACGA GCGGCCTC	21304
6406	GGAUUGAG G CCAGGGUG	4184	CACCCTGG GGCTAGCTACAACGA GTCAATCC	21305
6412	ACGCCAGG G UGUACUCG	4185	CGAGTACA GGCTAGCTACAACGA CCTGGCGT	21306
6414	GCCAGGGU G UACUCGGA	4186	TCCGAGTA GGCTAGCTACAACGA ACCCTGGC	21307
6430	AUACCAG G CACUAAAG	4187	CTTTAGTG GGCTAGCTACAACGA CTGGTGAT	21308
6439	CACUAAAG G CGUUAAG	4188	CTTGAACG GGCTAGCTACAACGA CTTTAGTG	21309
6441	CUAAAGGC G UUCAAGGA	4189	TCCTTGAA GGCTAGCTACAACGA GCCTTTAG	21310
6454	AGGACUUC G CCUCGGGA	4190	TCCCGAGG GGCTAGCTACAACGA GAAGTCCT	21311
6467	GGGAAAAC G UUCUCAGA	4191	TCTGAGAA GGCTAGCTACAACGA GTTTTCCC	21312
6480	CAGAUAGG G CUCAUUGA	4192	TCAATGAG GGCTAGCTACAACGA CCTATCTG	21313
6490	UCAUUGAG G UUCUGGGA	4193	TCCAGAAA GGCTAGCTACAACGA CTCAATGA	21314
6504	GGAAAGAU G CCUGAGCA	4194	TGCTCAGG GGCTAGCTACAACGA ATCTTTCC	21315
6510	AUGCCUGA G CACUUCAU	4195	ATGAAGTG GGCTAGCTACAACGA TCAGGCAT	21316
6535	CAUGGGAA G CACUUGAC	4196	GTCAAGTG GGCTAGCTACAACGA TTCCCATG	21317
6549	GACACCAU G UACGUUGU	4197	ACAACGTA GGCTAGCTACAACGA ATGGTGTC	21318
6553	CCAUGUAC G UUGUGGCC	4198	GGCCACAA GGCTAGCTACAACGA GTACATGG	21319
6556	UGUACGUU G UGGCCACU	4199	AGTGGCCA GGCTAGCTACAACGA AACGTACA	21320
6559	ACGUUGUG G CCACUGCA	4200	TGCAGTGG GGCTAGCTACAACGA CACAACCT	21321
6565	UGGCCACU G CAGAGAAA	4201	TTTCTCTG GGCTAGCTACAACGA AGTGGCCA	21322

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6583	GAGGAAGA G CUCACAGA	4202	TCTGTGAG GGCTAGCTACAACGA TCTTCCTC	21323
6595	ACAGAAUG G CCCUGGAG	4203	CTCCAGGG GGCTAGCTACAACGA CATTCTGT	21324
6609	GAGGAACU G CCAGAUGC	4204	GCATCTGG GGCTAGCTACAACGA AGTTCTCTC	21325
6616	UGCCAGAU G CUCUUCAG	4205	CTGAAGAG GGCTAGCTACAACGA ATCTGGCA	21326
6631	AGACAAU G CCUUGAUU	4206	AATCAAGG GGCTAGCTACAACGA AATTGTCT	21327
6640	CCUUGAUU G CCUUAUUG	4207	CAATAAGG GGCTAGCTACAACGA AATCAAGG	21328
6650	CUUAUUGA G UGUGAUGA	4208	TCATCACA GGCTAGCTACAACGA TCAATAAG	21329
6652	UAUUGAGU G UGAUGACC	4209	GGTCATCA GGCTAGCTACAACGA ACTCAATA	21330
6667	CCAUGGGA G UAUUCUUC	4210	GAAGAATA GGCTAGCTACAACGA TCCCATGG	21331
6684	CUCCUCAU G CAGCGGAA	4211	TTCCGCTG GGCTAGCTACAACGA ATGAGGAG	21332
6687	CUCAUGCA G CGGAAGGG	4212	CCCTTCCG GGCTAGCTACAACGA TGCATGAG	21333
6695	CGGAAGG G CAUUGGAA	4213	TTCCAATG GGCTAGCTACAACGA CCTTCCGC	21334
6710	AAAGAUAG G UUUGGGAG	4214	CTCCCAA GGCTAGCTACAACGA CTATCTTT	21335
6719	UUUGGGAG G CGCUGUCU	4215	AGACAGCG GGCTAGCTACAACGA CTCCCAA	21336
6721	UGGGAGGC G CUGUCUUG	4216	CAAGACAG GGCTAGCTACAACGA GCCTCCCA	21337
6724	GAGGCGCU G UCUUGGGA	4217	TCCCAAGA GGCTAGCTACAACGA AGCGCCTC	21338
6733	UCUUGGGA G UCGCGACC	4218	GGTCGCGA GGCTAGCTACAACGA TCCCAAGA	21339
6736	UGGAGUC G CGACCUU	4219	AAAGGTCG GGCTAGCTACAACGA GACTCCCA	21340
6749	CUUUUCU G UUGGAUGG	4220	CCATCCAA GGCTAGCTACAACGA AGAAAAAG	21341
6757	GUUGGAUG G CUGAAGUU	4221	AACTTCAG GGCTAGCTACAACGA CATCCAAC	21342
6763	UGGCUGAA G UUCCAGGA	4222	TCCTGGAA GGCTAGCTACAACGA TTCAGCCA	21343
6781	CGAAGAU G CCGGAUUG	4223	CATTCCGG GGCTAGCTACAACGA GATCTTCG	21344
6789	GCCGGAU G UUGCUGCU	4224	AGCAGCAA GGCTAGCTACAACGA ATTCCGGC	21345
6792	GGAAUGUU G CUGCUCUC	4225	GAGAGCAG GGCTAGCTACAACGA AACATTCC	21346
6795	AUGUUGCU G CUCUCCCU	4226	AGGGAGAG GGCTAGCTACAACGA AGCAACAT	21347
6817	UGAUGAUU G UGCUAAU	4227	AATTAGCA GGCTAGCTACAACGA AATCATCA	21348
6819	AUGAUUGU G CUAAUUC	4228	GGAATTAG GGCTAGCTACAACGA ACAATCAT	21349
6831	AUUCUGA G CCAGAGAA	4229	TTCTCTGG GGCTAGCTACAACGA TCAGGAAT	21350
6840	CCAGAGAA G CAACGUUC	4230	GAACGTTG GGCTAGCTACAACGA TTCTCTGG	21351
6845	GAAGCAAC G UUCGCAGA	4231	TCTGCGAA GGCTAGCTACAACGA GTTGCTTC	21352
6849	CAACGUUC G CAGACAGA	4232	TCTGTCTG GGCTAGCTACAACGA GAACGTTG	21353
6864	GACAACCA G CUAGCCGU	4233	ACGGCTAG GGCTAGCTACAACGA TGGTGTTC	21354
6868	ACCAGCUA G CCGUGUUC	4234	GAACACGG GGCTAGCTACAACGA TAGCTGGT	21355
6871	AGCUAGCC G UGUUCCUG	4235	CAGGAACA GGCTAGCTACAACGA GGCTAGCT	21356
6873	CUAGCCGU G UUCUGAU	4236	ATCAGGAA GGCTAGCTACAACGA ACGGCTAG	21357
6884	CCUGAUUU G UGUCAUCA	4237	TCATGACA GGCTAGCTACAACGA AAATCAGG	21358
6886	UGAUUUGU G UCAUGACC	4238	GGTCATGA GGCTAGCTACAACGA ACAATCA	21359
6898	UGACCCUU G UGAGCGCA	4239	TGCGCTCA GGCTAGCTACAACGA AAGGGTCA	21360
6902	CUUGUGA G CGCAGUGG	4240	CCACTGCG GGCTAGCTACAACGA TCACAAGG	21361
6904	UUUGUAGC G CAGUGGCA	4241	TGCCACTG GGCTAGCTACAACGA GCTCACA	21362
6907	UGAGCGCA G UGGCAGCC	4242	GGCTGCCA GGCTAGCTACAACGA TGCGCTCA	21363
6910	GCGCAGUG G CAGCCAAC	4243	GTTGGCTG GGCTAGCTACAACGA CACTGCGC	21364
6913	CAGUGGCA G CCAACGAG	4244	CTCGTTGG GGCTAGCTACAACGA TGCCACTG	21365
6926	CGAGUUGG G UUGGCUAG	4245	CTAGCCAA GGCTAGCTACAACGA CCATCTCG	21366
6930	AUGGGUUG G CUAGAUAA	4246	TTATCTAG GGCTAGCTACAACGA CAACCCAT	21367
6947	GACCAAGA G UGACAUAA	4247	TTATGTCA GGCTAGCTACAACGA TCTTGGTC	21368
6956	UGACAUAA G CAGUUUGU	4248	ACAAACTG GGCTAGCTACAACGA TTATGTCA	21369
6959	CAAAAGCA G UUUGUUUG	4249	CAAAACAA GGCTAGCTACAACGA TGCTTATG	21370
6963	AGCAGUUU G UUUGGGCA	4250	TGCCCAA GGCTAGCTACAACGA AAAGTCT	21371
6969	UUUUUGG G CAAAGAAU	4251	ATTCTTTG GGCTAGCTACAACGA CCAAACAA	21372
6982	GAAUUGAG G UCAAGGAG	4252	CTCCTTGA GGCTAGCTACAACGA CTCAATTC	21373
6998	GAAUUUCA G CAUGGGAG	4253	CTCCCATG GGCTAGCTACAACGA TGAAATTC	21374
7008	AUGGAGA G UUUCUUUU	4254	AAAAGAAA GGCTAGCTACAACGA TCTCCCAT	21375
7026	GACUUGAG G CCGGCAAC	4255	GTTCGCGG GGCTAGCTACAACGA CTCAAGTC	21376
7030	UGAGGCGG G CAACAGCC	4256	GGCTGTTG GGCTAGCTACAACGA CGGCCTCA	21377
7036	CGGCAACA G CCUGUCA	4257	TGACCAGG GGCTAGCTACAACGA TGTTGCCG	21378
7041	ACAGCCUG G UCACUGUA	4258	TACAGTGA GGCTAGCTACAACGA CAGGCTGT	21379
7047	UGGUCACU G UACGCUGU	4259	ACAGCGTA GGCTAGCTACAACGA AGTGACCA	21380
7051	CACUGUAC G CUGUGACA	4260	TGTCACAG GGCTAGCTACAACGA GTACAGTG	21381
7054	UGUACGCU G UGACAACA	4261	TGTTGTCA GGCTAGCTACAACGA AGCGTACA	21382
7063	UGACAACA G CGGUCCUC	4262	GAGGACCG GGCTAGCTACAACGA TGTTGTCA	21383
7066	CAACAGCG G UCCUCACU	4263	AGTGAGGA GGCTAGCTACAACGA CGCTGTTG	21384

7080	ACUCCACU G CUAAGCA	4264	TGCTTTAG GGCTAGCTACAACGA AGTGGAGT	21385
7086	CUGCUAAA G CAUUUGAU	4265	ATCAAATG GGCTAGCTACAACGA TTTAGCAG	21386
7098	UUGAUCAC G UCAGAUUA	4266	TAATCTGA GGCTAGCTACAACGA GTGATCAA	21387
7135	CAAUAAAC G UUCAGGCA	4267	TGCCTGAA GGCTAGCTACAACGA GTTTATTG	21388
7141	ACGUUCAG G CAAGUGCA	4268	TGCACTTG GGCTAGCTACAACGA CTGAACGT	21389
7145	UCAGGCAA G UGCACUAU	4269	ATAGTGCA GGCTAGCTACAACGA TTGCCTGA	21390
7147	AGGCAAGU G CACUAUUC	4270	GAATAGTG GGCTAGCTACAACGA ACTTGCTT	21391
7162	UCACACUC G CGCGAGGC	4271	GCCTCGCG GGCTAGCTACAACGA GAGTGTGA	21392
7164	ACACUCGC G CGAGGCUU	4272	AAGCCTCG GGCTAGCTACAACGA GCGAGTGT	21393
7169	CGCGGAG G CUUCCCUU	4273	AGGGGAAG GGCTAGCTACAACGA CTCGCGCG	21394
7180	UCCCUUUC G UCGAUGUU	4274	AACATCGA GGCTAGCTACAACGA GAAGGGGA	21395
7186	UCGUCGAU G UUGGAGUG	4275	CACTCCAA GGCTAGCTACAACGA ATCGACGA	21396
7192	AUGUUGGA G UGUCGGCU	4276	AGCCGACA GGCTAGCTACAACGA TCCAACAT	21397
7194	GUUGGAGU G UCGGCUCU	4277	AGAGCCGA GGCTAGCTACAACGA ACTCCAAC	21398
7198	GAGUGUCG G CUCUCCUG	4278	CAGGAGAG GGCTAGCTACAACGA CGACACTC	21399
7206	GCUCUCCU G CUAGCAGC	4279	GCTGCTAG GGCTAGCTACAACGA AGGAGAGC	21400
7210	UCCUGCUA G CAGCCGGA	4280	TCCGGCTG GGCTAGCTACAACGA TAGCAGGA	21401
7213	UGCUAGCA G CCGGAUGC	4281	GCATCCGG GGCTAGCTACAACGA TGCTAGCA	21402
7220	AGCCGGAU G CUGGGGAC	4282	GTCCCCAG GGCTAGCTACAACGA ATCCGGCT	21403
7231	GGGGACAA G UCACCCUC	4283	GAGGGTGA GGCTAGCTACAACGA TTGTCCCC	21404
7243	CCUCACCC G UUACGGUA	4284	TACCGTAA GGCTAGCTACAACGA GGTGAGGG	21405
7249	CCGUUACG G UAACAGCG	4285	CGCTGTTA GGCTAGCTACAACGA CGTAACGG	21406
7255	CGGUACA G CGGCAACA	4286	TGTTGCCG GGCTAGCTACAACGA TGTTACCG	21407
7258	UAACAGCG G CAACACUC	4287	GAGTGTGT GGCTAGCTACAACGA CGCTGTTA	21408
7274	CCUUUUU G CCACUAUG	4288	CATAGTGG GGCTAGCTACAACGA AAAAAGG	21409
7282	GCCACUAU G CCUACAUG	4289	CATGTAGG GGCTAGCTACAACGA ATAGTGGC	21410
7291	CCUACAUG G UUCCCGGU	4290	ACCGGGA GGCTAGCTACAACGA CATGTAGG	21411
7298	GGUACCCG G UUGGCAAG	4291	CTTGCCAA GGCTAGCTACAACGA CGGGAACC	21412
7302	CCCGGUUG G CAAGCUGA	4292	TCAGCTTG GGCTAGCTACAACGA CAACCGGG	21413
7306	GUUGGCAA G CUGAGGCA	4293	TGCCTCAG GGCTAGCTACAACGA TTGCCAAC	21414
7312	AAGCUGAG G CAUAGCGC	4294	GCGCATTG GGCTAGCTACAACGA CTCAGCTT	21415
7317	GAGGCAAU G CGCUCAGC	4295	GCTGAGCG GGCTAGCTACAACGA ATTGCCCTC	21416
7319	GGCAUUGC G CUCAGCCC	4296	GGGCTGAG GGCTAGCTACAACGA GCATTGCC	21417
7324	UGCGCUCA G CCCAGCGG	4297	CCGCTGGG GGCTAGCTACAACGA TGAGCGCA	21418
7329	UCAGCCCA G CGGCGGAC	4298	GTCCGCCG GGCTAGCTACAACGA TGGGCTGA	21419
7332	GCCGAGCA G CGGACAGC	4299	GCTGTCCG GGCTAGCTACAACGA CGCTGGGC	21420
7339	GGCGGACA G CGGCCGGA	4300	TCCGGCCG GGCTAGCTACAACGA TGTCGGCC	21421
7342	GGACAGCG G CCGGAAUC	4301	GATTCCGG GGCTAGCTACAACGA CGCTGTCC	21422
7360	UGAAGAAC G CUGUAGUG	4302	CACTACAG GGCTAGCTACAACGA GTTCTTCA	21423
7363	AGAAGCGU G UAGUGGAU	4303	ATCCACTA GGCTAGCTACAACGA AGCGTTCT	21424
7366	ACGUGUA G UGGAUGGC	4304	GCCATCCA GGCTAGCTACAACGA TACAGCGT	21425
7373	AGUGGAUG G CAUCUGG	4305	CCACGATG GGCTAGCTACAACGA CATCCAAT	21426
7378	AUGGCAUC G UGGCCACG	4306	CGTGGCCA GGCTAGCTACAACGA GATGCCAT	21427
7381	GCAUCGUG G CCACGGAC	4307	GTCCGTGG GGCTAGCTACAACGA CACGATGC	21428
7390	CCACGGAC G UCCAGAA	4308	TTCTGGGA GGCTAGCTACAACGA GTCCGTGG	21429
7404	GAAUUGA G CGCACCAC	4309	GTGGTGCG GGCTAGCTACAACGA TCTAATTC	21430
7406	AUUAGAGC G CACCACAC	4310	GTGTGGTG GGCTAGCTACAACGA GCTCTAAT	21431
7422	CCCAUCAU G CAGAAGAA	4311	TTCTTCTG GGCTAGCTACAACGA ATGATGGG	21432
7432	AGAAGAAA G UUGGACAG	4312	CTGTCCAA GGCTAGCTACAACGA TTTCTTCT	21433
7446	CAGAUCAU G CUGAUCUU	4313	AAGATCAG GGCTAGCTACAACGA ATGATCTG	21434
7456	UGAUCUUG G UGUCUCUA	4314	TAGAGACA GGCTAGCTACAACGA CAAGATCA	21435
7458	AUCUUGGU G UCUCUAGC	4315	GCTAGAGA GGCTAGCTACAACGA ACCAAGAT	21436
7465	UGUCUCUA G CUGCAGUA	4316	TACTGCAG GGCTAGCTACAACGA TAGAGACA	21437
7468	CUCUAGCU G CAGUAGUA	4317	TACTACTG GGCTAGCTACAACGA AGCTAGAG	21438
7471	UAGUCGCA G UAGUAGUG	4318	CACTACTA GGCTAGCTACAACGA TGCAGCTA	21439
7474	CUGCAGUA G UAGUGAAC	4319	GTTCCTTA GGCTAGCTACAACGA TACTGCAG	21440
7477	CAGUAGUA G UGAACCCG	4320	CGGGTTCA GGCTAGCTACAACGA TACTACTG	21441
7485	GUGAACCC G UCUGUGAA	4321	TTCACAGA GGCTAGCTACAACGA GGGTTCAC	21442
7489	ACCCGUCU G UGAAGACA	4322	TGTCTTCA GGCTAGCTACAACGA AGACGGGT	21443
7498	UGAAGACA G UACGAGAA	4323	TTCTCGTA GGCTAGCTACAACGA TGTCTTCA	21444
7507	UACGAGAA G CCGGAAU	4324	AATTCGGG GGCTAGCTACAACGA TTCTCGTA	21445
7525	UGAUCACG G CCGCAGCG	4325	CGTGGCGG GGCTAGCTACAACGA CGTGATCA	21446

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7528	UCACGGCC G CAGCGGUG	4326	CACCGCTG GGCTAGCTACAACGA GGCCGTGA	21447
7531	CGGCCGCA G CGGUGACG	4327	CGTCACCG GGCTAGCTACAACGA TGCGGCCG	21448
7534	CCGCAGCG G UGACGCUU	4328	AAGCGTCA GGCTAGCTACAACGA CGTGGCGG	21449
7539	GCGGUGAC G CUUUGGGA	4329	TCCCAAAG GGCTAGCTACAACGA GTCACCGC	21450
7555	AGAAUGGA G CAAGCUCU	4330	AGAGCTTG GGCTAGCTACAACGA TCCATTCT	21451
7559	UGGAGCAA G CUCUGUUU	4331	AAACAGAG GGCTAGCTACAACGA TTGCTCCA	21452
7564	CAAGCUCU G UUUGGAAC	4332	GTTCCAAA GGCTAGCTACAACGA AGAGCTTG	21453
7573	UUUGGAAC G CAACAACU	4333	AGTTGTGT GGCTAGCTACAACGA GTTCCAAA	21454
7582	CAACAACU G CCAUCGGA	4334	TCCGATGG GGCTAGCTACAACGA AGTTGTGT	21455
7595	CGGACUCU G CCACAUCA	4335	TGATGTGG GGCTAGCTACAACGA AGAGTCCG	21456
7605	CACAUCAU G CGUGGGGG	4336	CCCCCAGG GGCTAGCTACAACGA ATGATGTG	21457
7607	CAUCAUGC G UGGGGGUU	4337	AACCCCA GGCTAGCTACAACGA GCATGATG	21458
7613	GCGUGGGG G UUGGUUGU	4338	ACAACCAA GGCTAGCTACAACGA CCCACGCG	21459
7617	GGGGGUUG G UUGUCAUG	4339	CATGACAA GGCTAGCTACAACGA CAACCCCC	21460
7620	GGUUGGUU G UCAUGUCU	4340	AGACATGA GGCTAGCTACAACGA AACCACC	21461
7625	GUUGUCAU G UCUAUCCA	4341	TGGATAGA GGCTAGCTACAACGA ATGACAAC	21462
7682	AAAAGAG G UGGGGCAA	4342	TTGCCCA GGCTAGCTACAACGA CTCTTTTT	21463
7687	GAGGUGGG G CAAAGGA	4343	TCCTTTTG GGCTAGCTACAACGA CCCACCTC	21464
7697	AAAAGGAC G CACCUUGG	4344	CCAAGGTG GGCTAGCTACAACGA GTCCTTTT	21465
7711	UGGGAGAG G UUUGGAAA	4345	TTTCCAAA GGCTAGCTACAACGA CTCTCCCA	21466
7749	AAAGAAGA G UUCACUAG	4346	CTAGTGAA GGCTAGCTACAACGA TCTTCTTT	21467
7758	UUCACUAG G UACCGCAA	4347	TTGCGGTA GGCTAGCTACAACGA CTAGTGAA	21468
7763	UAGGUACC G CAAAGAGG	4348	CCTCTTTG GGCTAGCTACAACGA GGTACCTA	21469
7771	GCAAAGAG G CCAUCAUC	4349	GATGATGG GGCTAGCTACAACGA CTCTTTGC	21470
7783	UCAUCGAA G UCGAUCGC	4350	GCGATCGA GGCTAGCTACAACGA TTCGATGA	21471
7790	AGUCGAUC G CUCAGCGG	4351	CCGCTGAG GGCTAGCTACAACGA GATCGACT	21472
7795	AUCGCUCA G CGGCAAAA	4352	TTTTGCGG GGCTAGCTACAACGA TGAGCGAT	21473
7798	GCUCAGCG G CAAACAC	4353	GTGTTTTG GGCTAGCTACAACGA CGCTGAGC	21474
7807	CAAAACAC G CCAGGAAA	4354	TTTCTTGG GGCTAGCTACAACGA GTGTTTTG	21475
7820	GAAAGAAG G CAUUGUCA	4355	TGACATTG GGCTAGCTACAACGA TTCTTTTC	21476
7825	AAGGCAAU G UCACUGGA	4356	TCCAGTGA GGCTAGCTACAACGA ATTGCCCT	21477
7836	ACUGGAGG G CAUCCAGU	4357	ACTGGATG GGCTAGCTACAACGA CCTCCAGT	21478
7843	GGCAUCCA G UCUCUAGG	4358	CCTAGAGA GGCTAGCTACAACGA TGGATGCC	21479
7853	CUCUAGGG G CACAGCAA	4359	TTGCTGTG GGCTAGCTACAACGA CCCTAGAG	21480
7858	GGGCGACA G CAAAACUG	4360	CAGTTTTG GGCTAGCTACAACGA TGTGCCCC	21481
7872	CUGAGAUG G CUGGUCCA	4361	TCGACCAG GGCTAGCTACAACGA CATCTCAG	21482
7876	GAUGGCUG G UCGAACGG	4362	CCGTTCCA GGCTAGCTACAACGA CAGCCATC	21483
7887	GAACGGAG G UUUCUGCA	4363	TCGAGAAA GGCTAGCTACAACGA CTCCGTTT	21484
7900	UCGAACCG G UCGGAAAA	4364	TTTTCCGA GGCTAGCTACAACGA CGTCTCGA	21485
7909	UCGGAAAA G UGAUUGAC	4365	GTCAATCA GGCTAGCTACAACGA TTTTCCGA	21486
7925	CCUUGGAU G UGGAAGAG	4366	CTCTTCCA GGCTAGCTACAACGA ATCCAAGG	21487
7934	UGGAAGAG G CGGUUGGU	4367	ACCAACCG GGCTAGCTACAACGA CTCTTCCA	21488
7937	AAGAGGCG G UUGGUGUU	4368	AACACCAA GGCTAGCTACAACGA CGCCTCTT	21489
7941	GGCGGUUG G UGUUACUA	4369	TAGTAACA GGCTAGCTACAACGA CAACGCC	21490
7943	CGGUUGGU G UUACUUAU	4370	TATAGTAA GGCTAGCTACAACGA ACCAACCG	21491
7954	ACUUAUUG G CAACCCAA	4371	TTGGGTTG GGCTAGCTACAACGA CATATAGT	21492
7969	AAAAAAGA G UCCAAGAA	4372	TTCTTGGA GGCTAGCTACAACGA TCTTTTTT	21493
7978	UCCAAGAA G UCAGAGGG	4373	CCCTCTGA GGCTAGCTACAACGA TTCTTGGA	21494
7986	GUCAGAGG G UACACAAA	4374	TTTGTGTA GGCTAGCTACAACGA CCTCTGAC	21495
7997	CACAAAGG G CGGUCCCG	4375	CGGGACCG GGCTAGCTACAACGA CCTTTGTG	21496
8000	AAAGGGCG G UCCCGGAC	4376	GTCCGGGA GGCTAGCTACAACGA CGCCCTTT	21497
8016	CAUGAAGA G CCCCACU	4377	AGTTGGGG GGCTAGCTACAACGA TCTTCATG	21498
8026	CCCAACUA G UGCAAGU	4378	ACTTTGCA GGCTAGCTACAACGA TAGTTGGG	21499
8028	CAACUAGU G CAAAGUUA	4379	TAACTTTG GGCTAGCTACAACGA ACTAGTTG	21500
8033	AGUGCAA G UUAUGGAU	4380	ATCCATAA GGCTAGCTACAACGA TTTGCACT	21501
8050	GGAACAUU G UCACCAUG	4381	CATGGTGA GGCTAGCTACAACGA AATGTTCC	21502
8063	CAUGAAGA G UGGAGUGG	4382	CCACTCCA GGCTAGCTACAACGA TCTTCATG	21503
8068	AGAGUGGA G UGGAUGUG	4383	CACATCCA GGCTAGCTACAACGA TCCACTCT	21504
8074	GAGUGGAU G UGUUCUAC	4384	GTAGAACA GGCTAGCTACAACGA ATCCACTC	21505
8076	GUGGAUGU G UUCUACAG	4385	CTGTAGAA GGCTAGCTACAACGA ACATCCAC	21506
8094	CCUUCUGA G UGUUGUGA	4386	TCACAACA GGCTAGCTACAACGA TCAGAAGG	21507
8096	UUCUGAGU G UUGUGACA	4387	TGTCACAA GGCTAGCTACAACGA ACTCAGAA	21508

8099	UGAGUGUU G UGACACCC	4388	GGGTGTCA GGCTAGCTACAACGA AACACTCA	21509
8114	CCUCCUUU G UGACAUCG	4389	CGATGTCA GGCTAGCTACAACGA AAAGGAGG	21510
8127	AUCGGAGA G UCCUCGUC	4390	GACGAGGA GGCTAGCTACAACGA TCTCCGAT	21511
8133	GAGUCCUC G UCAAGUGC	4391	GCACTTGA GGCTAGCTACAACGA GAGGACTC	21512
8138	CUCGUCAA G UGCUGAGG	4392	CCTCAGCA GGCTAGCTACAACGA TTGAGGAG	21513
8140	CGUCAAGU G CUGAGGUU	4393	AACCTCAG GGCTAGCTACAACGA ACTTGACG	21514
8146	GUGCUGAG G UUGAAGAG	4394	CTCTTCAA GGCTAGCTACAACGA CTCAGCAC	21515
8154	GUUGAAGA G CAUAGGAC	4395	GTCCTATG GGCTAGCTACAACGA TCTTCAAC	21516
8170	CGAUUCGG G UCCUUGAA	4396	TTCAAGGA GGCTAGCTACAACGA CCGAATCG	21517
8182	UUGAAAUG G UUGAGGAC	4397	GTCCTCAA GGCTAGCTACAACGA CATTTCAA	21518
8193	GAGGACUG G CUGCACCG	4398	CGGTGCAG GGCTAGCTACAACGA CAGTCTCT	21519
8196	GACUGGCU G CACCGAGG	4399	CCTCGGTG GGCTAGCTACAACGA AGCCAGTC	21520
8205	CACCGAGG G CCAAGGGA	4400	TCCCTTGG GGCTAGCTACAACGA CCTCGGTG	21521
8219	GGAAUUUU G CGUGAAGG	4401	CCTTCACG GGCTAGCTACAACGA AAAATTCC	21522
8221	AAUUUUGC G UGAAGGUG	4402	CACCTTCA GGCTAGCTACAACGA GCAAATTT	21523
8227	GCGUGAAG G UGCUCUGC	4403	GCAGAGCA GGCTAGCTACAACGA CTTCACGC	21524
8229	GUGAAGGU G CUCUGCCC	4404	GGGCAGAG GGCTAGCTACAACGA ACCTTCAC	21525
8234	GGUGCUCU G CCCUACA	4405	TGTAGGGG GGCTAGCTACAACGA AGAGCACC	21526
8244	CCCUACAU G CCGAAAAGU	4406	ACTTTCGG GGCTAGCTACAACGA ATGTAGGG	21527
8251	UGCCGAAA G UCAUAGAG	4407	CTCTATGA GGCTAGCTACAACGA TTTCCGCA	21528
8268	AAGAUGGA G CUGCUGCA	4408	TGGAGCAG GGCTAGCTACAACGA TCCATCTT	21529
8271	AUGGAGCU G CUCCAACG	4409	CGTTGGAG GGCTAGCTACAACGA AGCTCCAT	21530
8279	GCUCCAAC G CCGGUUAG	4410	CATACCGG GGCTAGCTACAACGA GTTGAGGC	21531
8283	CAACCCCG G UAUGGGGG	4411	CCCCATA GGCTAGCTACAACGA CGGCGTTG	21532
8299	GGGGACUG G UCAGAAAC	4412	GTTTCTGA GGCTAGCTACAACGA CAGTCCCC	21533
8328	AAUCCAC G CACGAGAU	4413	ATCTCGTG GGCTAGCTACAACGA GTGGAATT	21534
8337	CACGAGAU G UAUUGGUU	4414	ACCCAATA GGCTAGCTACAACGA ATCTCGTG	21535
8344	UGUAUUGG G UGAGUCGA	4415	TCGACTCA GGCTAGCTACAACGA CCAATACA	21536
8348	UUGGGUGA G UCGAGCUU	4416	AAGCTCGA GGCTAGCTACAACGA TCACCCAA	21537
8353	UGAGUCGA G CUUCAGGC	4417	GCCTGAAG GGCTAGCTACAACGA TCGACTCA	21538
8360	AGCUUCAG G CAAUGUGG	4418	CCACATTG GGCTAGCTACAACGA CTGAAGCT	21539
8365	CAGGCAAU G UGGUACAU	4419	ATGTACCA GGCTAGCTACAACGA ATTGCCTG	21540
8368	GCAAUGUG G UACAUAUA	4420	TGAATGTA GGCTAGCTACAACGA CACATTGC	21541
8377	UACAUAUA G UGAUAUAG	4421	CATATTCA GGCTAGCTACAACGA TGAATGTA	21542
8390	UAUGACCA G CCAGGUGC	4422	GCACCTGG GGCTAGCTACAACGA TGGTCATA	21543
8395	CCAGCCAG G UGCUCUA	4423	TAGGAGCA GGCTAGCTACAACGA CTGGCTGG	21544
8397	AGCCAGGU G CUCCUAGG	4424	CCTAGGAG GGCTAGCTACAACGA ACCTGGCT	21545
8452	AGGAAGAU G UAAACUUG	4425	CAAGTTTA GGCTAGCTACAACGA ATCTTCCT	21546
8465	CUUGGGAA G UGGAACCA	4426	TGGTTCCA GGCTAGCTACAACGA TTCCCAAG	21547
8476	GAACCAGG G CGGUGGGA	4427	TCCCACCG GGCTAGCTACAACGA CCTGGTTC	21548
8479	CCAGGGCG G UGGGAAA	4428	TTTTCCCA GGCTAGCTACAACGA CGCCCTGG	21549
8493	AAACCCCU G CUCAACUC	4429	GAGTTGAG GGCTAGCTACAACGA AGGGGTTT	21550
8510	AGACACCA G UAAAAUCA	4430	TGATTTTA GGCTAGCTACAACGA TGGTGTCT	21551
8541	CGACACAG G CGUGAGUA	4431	TACTACG GGCTAGCTACAACGA CTGAGTCG	21552
8543	ACUCAGGC G UGAGUACA	4432	TGACTACT GGCTAGCTACAACGA GCCTGAGT	21553
8547	AGGCGUGA G UACAGUUC	4433	GAAGTGTG GGCTAGCTACAACGA TCACGCCT	21554
8552	UGAGUACA G UUCGACGU	4434	ACGTCGAA GGCTAGCTACAACGA TGTACTCA	21555
8559	AGUUCGAC G UGGACCA	4435	TGGTGCCA GGCTAGCTACAACGA GTCGAACT	21556
8562	UCGACGUG G CACCACGA	4436	TCGTGGTG GGCTAGCTACAACGA CACGTCGA	21557
8606	CUAUCACG G CAGUUAUG	4437	CATAACTG GGCTAGCTACAACGA CGTGATAG	21558
8609	UCACGGCA G UUAUGAUG	4438	CATCATAA GGCTAGCTACAACGA TGCCGTGA	21559
8617	GUUAUGAU G UGAAGCCC	4439	GGGCTTCA GGCTAGCTACAACGA ATCATAAC	21560
8622	GAUGUGAA G CCCACAGG	4440	CCTGTGGG GGCTAGCTACAACGA TTCACATC	21561
8630	GCCCACAG G CUCCGCCA	4441	TGGCGGAG GGCTAGCTACAACGA CTGTGGGC	21562
8635	CAGGCUCC G CCAGUUCG	4442	CGAACTGG GGCTAGCTACAACGA GGAGCCTG	21563
8639	CUCCGCCA G UUCGUGG	4443	CCAGCGAA GGCTAGCTACAACGA TGGCGGAG	21564
8643	GCCAGUUC G CUGGUCAA	4444	TTGACCAG GGCTAGCTACAACGA GAACTGGC	21565
8647	GUUCGUG G UCAAUGGA	4445	TCCATTGA GGCTAGCTACAACGA CAGCGAAC	21566
8656	UCAUGGA G UGGUCAGG	4446	CCTGACCA GGCTAGCTACAACGA TCCATTGA	21567
8659	AUGGAGUG G UCAGGCUC	4447	GAGCCTGA GGCTAGCTACAACGA CACTCCAT	21568
8664	GUGGUCAG G CUCCUCUC	4448	GAGAGGAG GGCTAGCTACAACGA CTGACCAC	21569
8698	UCACGAAU G UUACCACC	4449	GGTGGTAA GGCTAGCTACAACGA ATTCGTGA	21570

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8710	CCACCAUG G CCAUGACU	4450	AGTCATGG GGCTAGCTACAACGA CATGGTGG	21571
8736	CCCUUCGG G CAGCAGCG	4451	CGCTGCTG GGCTAGCTACAACGA CCGAAGGG	21572
8739	UUCGGGCA G CAGCGAGU	4452	ACTCGCTG GGCTAGCTACAACGA TGCCCGAA	21573
8742	GGGCAGCA G CGAGUGUU	4453	AACACTCG GGCTAGCTACAACGA TGCTGCCC	21574
8746	AGCAGCGA G UGUUCAA	4454	TTTGAACA GGCTAGCTACAACGA TCGTGCT	21575
8748	CAGCGAGU G UUCAAGA	4455	TCTTTGAA GGCTAGCTACAACGA ACTCGCTG	21576
8761	AAGAGAAG G UGGACACG	4456	CGTGTCCA GGCTAGCTACAACGA CTTCTCTT	21577
8773	ACACGAAA G CUCCUGAA	4457	TTCAGGAG GGCTAGCTACAACGA TTTCGTGT	21578
8784	CCUGAACG G CCAGAAGG	4458	CCTTCTGG GGCTAGCTACAACGA GGTTCAAG	21579
8794	CAGAAGGA G UGAAGUAC	4459	GTAATTCA GGCTAGCTACAACGA TCCTTCTG	21580
8799	GGAGUGAA G UACGUGCU	4460	AGCACGTA GGCTAGCTACAACGA TTCACTCC	21581
8803	UGAAGUAC G UGCUCAAU	4461	ATTGAGCA GGCTAGCTACAACGA GTACTTCA	21582
8805	AAGUACGU G CUCAAUGA	4462	TCAATTAG GGCTAGCTACAACGA ACGTACTT	21583
8826	ACCAACUG G UUGUGGGC	4463	GCCCACAA GGCTAGCTACAACGA CAGTTGGT	21584
8829	AACUGGUU G UGGGCGUU	4464	AACGCCCA GGCTAGCTACAACGA AACCAGTT	21585
8833	GGUUGUGG G CGUUUUUG	4465	CAAAAACG GGCTAGCTACAACGA CCACAACC	21586
8835	UUGUGGGC G UUUUUGGC	4466	GCCAAAAA GGCTAGCTACAACGA GCCACAA	21587
8842	CGUUUUUG G CCAGAGAA	4467	TTCTCTGG GGCTAGCTACAACGA CAAAACG	21588
8855	AGAAAAAC G UCCCAGAA	4468	TTCTGGGA GGCTAGCTACAACGA GTTTTCT	21589
8865	CCAGAAU G UGCUCUCG	4469	CGAGAGCA GGCTAGCTACAACGA ATTCTGGG	21590
8867	CAGAAUGU G CUCUCGAG	4470	CTCGAGAG GGCTAGCTACAACGA ACATTCTG	21591
8893	UAAGAAAG G UCAACAGC	4471	GCTGTTGA GGCTAGCTACAACGA CTTTCTTA	21592
8900	GGUCAACA G CAAUGCAG	4472	CTGCATTG GGCTAGCTACAACGA TGTTGACC	21593
8905	ACAGCAAU G CAGCUUUG	4473	CAAAGCTG GGCTAGCTACAACGA ATTGCTGT	21594
8908	GCA AUGCA G CUUUGGGU	4474	ACCCAAAG GGCTAGCTACAACGA TGCATTGC	21595
8915	AGCUUUGG G UGCCAUGU	4475	ACATGGCA GGCTAGCTACAACGA CCAAAGCT	21596
8917	CUUUGGGU G CCAUGUUU	4476	AAACATGG GGCTAGCTACAACGA ACCCAAAG	21597
8922	GGUGCCAU G UUUGAAGA	4477	TCTTCAA GGCTAGCTACAACGA ATGGCACC	21598
8931	UUUGAAGA G CAGAAUCA	4478	TGATTCTG GGCTAGCTACAACGA TCTTCAA	21599
8948	AUGGAGGA G CGCCAGAG	4479	CTCTGGCG GGCTAGCTACAACGA TCTCCAT	21600
8950	GGAGGAGC G CCAGAGAA	4480	TTCTCTGG GGCTAGCTACAACGA GCTCCTCC	21601
8959	CCAGAGAA G CAGUUGAA	4481	TTCAACTG GGCTAGCTACAACGA TTCTCTGG	21602
8962	GAGAAGCA G UUGAAGAU	4482	ATCTTCAA GGCTAGCTACAACGA TGCTTCTC	21603
8989	GGGAGAUG G UGGAUGAG	4483	CTCATCCA GGCTAGCTACAACGA CATCTCCC	21604
9000	GAUGAGGA G CGCGAGGC	4484	GCCTCGCG GGCTAGCTACAACGA TCCTCATC	21605
9002	UGAGGAGC G CGAGGCAC	4485	GTGCCTCG GGCTAGCTACAACGA GCTCCTCA	21606
9007	AGCGCGAG G CACAUCUG	4486	CAGATGTG GGCTAGCTACAACGA CTCGCGCT	21607
9015	GCACAUCU G CGGGGGGA	4487	TCCCCCGG GGCTAGCTACAACGA AGATGTGC	21608
9026	GGGGGAU G UCACACUU	4488	AAGTGTGA GGCTAGCTACAACGA ATTCCCC	21609
9035	UCACACUU G CAUUUACA	4489	TGTAAATG GGCTAGCTACAACGA AAGTGTGA	21610
9078	CCCGGAGA G UUCGGAAA	4490	TTTCCGAA GGCTAGCTACAACGA TCTCCGGG	21611
9088	UCGGAAAG G CCAAGGGA	4491	TCCCTTGG GGCTAGCTACAACGA CTTTCCGA	21612
9098	CAAGGGAA G CAGAGCCA	4492	TGGCTCTG GGCTAGCTACAACGA TTCCCTTG	21613
9103	GAAGCAGA G CCAUUUGG	4493	CCAAATGG GGCTAGCTACAACGA TCTGCTTC	21614
9111	GCCAUUUG G UUCAUGUG	4494	CACATGAA GGCTAGCTACAACGA CAAATGGC	21615
9117	UGGUUCAU G UGGCUCGG	4495	CCGAGCCA GGCTAGCTACAACGA ATGAACCA	21616
9120	UUCAUGUG G CUCGGAGC	4496	GCTCCGAG GGCTAGCTACAACGA CACATGAA	21617
9127	GGCUCGGA G CUCGCUUU	4497	AAAGCGAG GGCTAGCTACAACGA TCCGAGCC	21618
9131	CGGAGCUC G CUUUCUGG	4498	CCAGAAAG GGCTAGCTACAACGA GAGCTCCG	21619
9141	UUUCUGGA G UUCGAGGC	4499	GCCTCGAA GGCTAGCTACAACGA TCCAGAAA	21620
9148	AGUUCGAG G CUCUGGGU	4500	ACCCAGAG GGCTAGCTACAACGA CTCGAAC	21621
9155	GGCUCUGG G UUUUCUCA	4501	TGAGAAAA GGCTAGCTACAACGA CCAGAGCC	21622
9177	GACCACUG G CUUGGAAG	4502	CTTCCAAG GGCTAGCTACAACGA CAGTGCTC	21623
9203	AGGAGGAG G UGUCGAGG	4503	CCTCGACA GGCTAGCTACAACGA CTCCTCCT	21624
9205	GAGGAGGU G UCGAGGCG	4504	GCCCTCGA GGCTAGCTACAACGA ACCTCCTC	21625
9212	UGUCGAGG G CUUGGGCC	4505	GGCCCAAG GGCTAGCTACAACGA CCTCGACA	21626
9218	GGGCUUGG G CCUCCAAA	4506	TTTGGAGG GGCTAGCTACAACGA CCAAGCCC	21627
9233	AAAACUGG G UUACAUC	4507	GGATGTAA GGCTAGCTACAACGA CCAGTTTT	21628
9243	UACAUCU G CGUGAAGU	4508	ACTTCACG GGCTAGCTACAACGA AGGATGTA	21629
9245	CAUCCUGC G UGAAGUUG	4509	CAACTTCA GGCTAGCTACAACGA GCAGGATG	21630
9250	UGCGUGAA G UUGGCACC	4510	GGTGCCAA GGCTAGCTACAACGA TTCACGCA	21631
9254	UGAAGUUG G CACCCGGC	4511	GCCGGGTG GGCTAGCTACAACGA CAACTTCA	21632

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9261	GGCACCCG G CCUGGGGG	4512	CCCCCAGG GGCTAGCTACAACGA CGGGTGCC	21633
9269	GCCUGGGG G CAAGAUCU	4513	AGATCTTG GGCTAGCTACAACGA CCCCAGGC	21634
9280	AGAUCUAU G CUGAUGAC	4514	GTCATCAG GGCTAGCTACAACGA ATAGATCT	21635
9292	AUGACACA G CUGGCUGG	4515	CCAGCCAG GGCTAGCTACAACGA TGTGTCAT	21636
9296	CACAGCUG G CUGGGACA	4516	TGTCCCAG GGCTAGCTACAACGA CAGCTGTG	21637
9308	GGACACCC G CAUCACGA	4517	TCGTGATG GGCTAGCTACAACGA GGGTGTCC	21638
9319	UCACGAGA G CUGACUUG	4518	CAAGTCAG GGCTAGCTACAACGA TCTCGTGA	21639
9337	AAAUGAA G CUAAGGUG	4519	CACCTTAG GGCTAGCTACAACGA TTCATTTT	21640
9343	AAGCUAAG G UGCUUGAG	4520	CTCAAGCA GGCTAGCTACAACGA CTTAGCTT	21641
9345	GCUAAGGU G CUUGAGCU	4521	AGCTCAAG GGCTAGCTACAACGA ACCTTAGC	21642
9351	GUGCUUGA G CUGCUUGA	4522	TCAAGCAG GGCTAGCTACAACGA TCAAGCAC	21643
9354	CUUGAGCU G CUUGAUGG	4523	CCATCAAG GGCTAGCTACAACGA AGTCAAG	21644
9372	GAACAUCG G CGUCUUGC	4524	GCAAGACG GGCTAGCTACAACGA CGATGTTT	21645
9374	ACAUCGGC G UCUGCCA	4525	TGGCAAGA GGCTAGCTACAACGA GCCGATGT	21646
9379	GGCGUCUU G CCAGGGCC	4526	GGCCCTGG GGCTAGCTACAACGA AAGACGCC	21647
9385	UUGCCAGG G CCAUCAUU	4527	AATGATGG GGCTAGCTACAACGA CTTGGCAA	21648
9396	AUCAUUGA G CUCACCUA	4528	TAGGTGAG GGCTAGCTACAACGA TCAATGAT	21649
9407	CACCUAUC G UCACAAAG	4529	CTTTGTGA GGCTAGCTACAACGA GATAGGTG	21650
9415	GUCACAAA G UUGUGAAA	4530	TTTCAACA GGCTAGCTACAACGA TTTGTGAC	21651
9418	ACAAAGUU G UGAAAGUG	4531	CACPTTCA GGCTAGCTACAACGA AACTTTGT	21652
9424	UUGUGAAA G UGAUGCGC	4532	GCGCATCA GGCTAGCTACAACGA TTTACAAA	21653
9429	AAAGUGAU G CGCCCGGC	4533	GCCGGGCG GGCTAGCTACAACGA ATCACTTT	21654
9431	AGUGAUGC G CCCGGCUG	4534	CAGCCGGG GGCTAGCTACAACGA GCATCACT	21655
9436	UGCGCCCG G CUGCUGAU	4535	ATCAGCAG GGCTAGCTACAACGA CGGCGCA	21656
9439	GCCCGGCU G CUGAUGGA	4536	TCCATCAG GGCTAGCTACAACGA AGCCGGGC	21657
9454	GAAGAACC G UCAUGGAU	4537	ATCCATGA GGCTAGCTACAACGA GGTCTTTC	21658
9463	UCAUGGAU G UUAUCUCC	4538	GGAGATAA GGCTAGCTACAACGA ATCCATGA	21659
9491	GAGGGGGA G UGGACAAG	4539	CTTGTCCA GGCTAGCTACAACGA TCCCTCTC	21660
9499	GUGGACAA G UUGUACC	4540	GGTGACAA GGCTAGCTACAACGA TTGTCCAC	21661
9502	GACAAGUU G UCACCUAC	4541	GTAGGTGA GGCTAGCTACAACGA AACTTGTC	21662
9511	UCACCUAC G CCCUAAAC	4542	GTTTAGGG GGCTAGCTACAACGA GTAGGTGA	21663
9535	CCAACCUG G CCGUCCAG	4543	CTGGACGG GGCTAGCTACAACGA CAGGTTGG	21664
9538	ACCUGGCC G UCCAGCUG	4544	CAGCTGGA GGCTAGCTACAACGA GGCCAGGT	21665
9543	GCCGUCCA G CUGGUGAG	4545	CTCACCAG GGCTAGCTACAACGA TGACGGC	21666
9547	UCCAGCUG G UGAGGAUG	4546	CATCCTCA GGCTAGCTACAACGA CAGCTGGA	21667
9571	GGAAGGA G UGAUUGGC	4547	GCCAAATCA GGCTAGCTACAACGA TCCTTCCC	21668
9578	AGUGAUUG G CCCAGAUG	4548	CATCTGGG GGCTAGCTACAACGA CAATCACT	21669
9589	CAGAUGAU G UGGAGAAA	4549	TTTCTCCA GGCTAGCTACAACGA ATCATCTG	21670
9622	GACCCAAA G UCAGGACC	4550	GGTCTCTGA GGCTAGCTACAACGA TTTGGGTC	21671
9633	AGGACCUG G CUGUUUGA	4551	TCAAACAG GGCTAGCTACAACGA CAGGTCCT	21672
9636	ACCUGGCU G UUUGAGAA	4552	TTCTCAAA GGCTAGCTACAACGA AGCCAGGT	21673
9662	AAGACUCA G CCGCAUGG	4553	CCATCGGG GGCTAGCTACAACGA TGAATCTT	21674
9665	ACUCAGCC G CAUGGCUG	4554	CAGCCATG GGCTAGCTACAACGA GGCTGAGT	21675
9670	GCCGCAUG G CUGUCAGU	4555	ACTGACAG GGCTAGCTACAACGA CATGCGGC	21676
9673	GCAUGGCU G UCAGUGGA	4556	TCCATGTA GGCTAGCTACAACGA AGCCATGC	21677
9677	GGUGUCA G UGGAUGAU	4557	CATCTCCA GGCTAGCTACAACGA TGACAGCC	21678
9689	AGAUGACU G UGUGUAA	4558	TTACCACA GGCTAGCTACAACGA AGTCATCT	21679
9691	AUGACUGU G UGUAAAG	4559	CTTTACCA GGCTAGCTACAACGA ACAGTCAT	21680
9694	ACUGUGUG G UAAAGCCC	4560	GGGCTTTA GGCTAGCTACAACGA CACACAGT	21681
9699	GUGGUAAA G CCCUGGA	4561	TCCAGGGG GGCTAGCTACAACGA TTTACCAC	21682
9713	GGACGAUC G CUUUGCCA	4562	TGGCAAAG GGCTAGCTACAACGA GATCGTCC	21683
9718	AUCGCUUU G CCACCUCG	4563	CGAGGTGG GGCTAGCTACAACGA AAAGCGAT	21684
9726	GCCACCUC G CUCCACUU	4564	AAGTGGAG GGCTAGCTACAACGA GAGGTGGC	21685
9742	UCCUCAAU G CUAUGUCA	4565	TGACATAG GGCTAGCTACAACGA ATTGAGGA	21686
9747	AAUGCUAU G UCAAAGGU	4566	ACCTTTGA GGCTAGCTACAACGA ATAGCATT	21687
9754	UGUCAAG G UUCGCAA	4567	TTTGCGAA GGCTAGCTACAACGA CTTTGACA	21688
9758	AAAGGUUC G CAAAGACA	4568	TGTCCTTG GGCTAGCTACAACGA GAACCTTT	21689
9774	AUCCAAGA G UGAAACC	4569	GGTTTCCA GGCTAGCTACAACGA TCTTGAT	21690
9783	UGGAAACC G UCAACUGG	4570	CCAGTTGA GGCTAGCTACAACGA GGTTCCTA	21691
9795	ACUGGAUG G UAUGAUUG	4571	CAATCATA GGCTAGCTACAACGA CATCCAGT	21692
9804	UAUGAUUG G CAGCAGGU	4572	ACCTGCTG GGCTAGCTACAACGA CAATCATA	21693
9807	GAUUGGCA G CAGGUUCC	4573	GGAACCTG GGCTAGCTACAACGA TGCCAATC	21694

9811	GGCAGCAG G UUCCAUIU	4574	AAATGGAA GGCTAGCTACAACGA CTGCTGCC	21695
9821	UCCAUIUU G CUCAAACC	4575	GGTTTGAG GGCTAGCTACAACGA AAAATGGA	21696
9868	GAACACUG G UGGUCCA	4576	TGGAACCA GGCTAGCTACAACGA CAGTGTTC	21697
9871	CACUGGUG G UUCAUGC	4577	GCATGGAA GGCTAGCTACAACGA CACCAGTG	21698
9878	GGUCCAUG G CCGAGGAC	4578	GTCCTCGG GGCTAGCTACAACGA ATGGAACC	21699
9898	AUGAAUUG G UAGGCAGA	4579	TCTGCCTA GGCTAGCTACAACGA CAATTCAT	21700
9902	AUUGGUAG G CAGAGCUC	4580	GAGCTCTG GGCTAGCTACAACGA CTACCAAT	21701
9907	UAGGCAGA G CUCGCAUA	4581	TATGCGAG GGCTAGCTACAACGA TCTGCCTA	21702
9911	CAGAGCUC G CAUAUCUC	4582	GAGATATG GGCTAGCTACAACGA GAGCTCTG	21703
9925	CUCCAGGG G CCGGAUGG	4583	CCATCCGG GGCTAGCTACAACGA CCCTGGAG	21704
9937	GAUGGAAC G UCCGCGAC	4584	GTCGCGGA GGCTAGCTACAACGA GTTCCATC	21705
9941	GAACGUCC G CGACACUG	4585	CAGTGTCTG GGCTAGCTACAACGA GGACGTTT	21706
9949	GGCAGACU G CUUGUCUG	4586	CAGACAAG GGCTAGCTACAACGA AGTGTCTG	21707
9953	CACUGCUU G UCUGGCUA	4587	TAGCCAGA GGCTAGCTACAACGA AAGCAGTG	21708
9958	CUUGUCUG G CUAAGUCU	4588	AGACTTAG GGCTAGCTACAACGA CAGACAAG	21709
9963	CUGGCUAA G UCUAUUGC	4589	GCATAAGA GGCTAGCTACAACGA TTAGCCAG	21710
9970	AGUCUUAU G CCCAGAUG	4590	CATCTGGG GGCTAGCTACAACGA ATAAGACT	21711
9978	GCCCAGAU G UGGCUGCU	4591	AGCAGCCA GGCTAGCTACAACGA ATCTGGGC	21712
9981	CAGAUGUG G CUGCUUCU	4592	AGAAGCAG GGCTAGCTACAACGA CACATCTG	21713
9984	AUGUGGCU G CUUCUGUA	4593	TACAGAAG GGCTAGCTACAACGA AGCCACAT	21714
9990	CUGCUUCU G UACUCCA	4594	TGGAAGTA GGCTAGCTACAACGA AGAAGCAG	21715
10011	AGAGACCU G CGGCUCAU	4595	ATGAGCCG GGCTAGCTACAACGA AGGTCTCT	21716
10014	GACCUGCG G CUCAUGGC	4596	GCCATGAG GGCTAGCTACAACGA CGCAGGTC	21717
10021	GGCUCAUG G CCAACGCC	4597	GGCGTTGG GGCTAGCTACAACGA CATGAGCC	21718
10027	UGGCCAAC G CCAUUGGC	4598	GCAAATGG GGCTAGCTACAACGA GTTGGCCA	21719
10034	CGCAUUU G CUCCGUG	4599	CAGCGGAG GGCTAGCTACAACGA AAATGGCG	21720
10039	UUUGCUCC G CUGUCCU	4600	AGGGACAG GGCTAGCTACAACGA GGAGCAAA	21721
10042	GCUCGCGU G UCCUGUG	4601	CACAGGGA GGCTAGCTACAACGA AGCGGAGC	21722
10048	CUGUCCU G UGAAUUGG	4602	CCAATTCA GGCTAGCTACAACGA AGGGACAG	21723
10057	UGAAUUGG G UCCUACC	4603	GGTAGGGA GGCTAGCTACAACGA CCAATTCA	21724
10077	AGAACCAC G UGUCCAU	4604	ATGGACCA GGCTAGCTACAACGA GTGTCTCT	21725
10080	ACCACGUG G UCCAUCCA	4605	TGGATGGA GGCTAGCTACAACGA CACGTGGT	21726
10090	CCAUCCAU G CAGGAGGA	4606	TCCTCTTG GGCTAGCTACAACGA ATGGATGG	21727
10101	GGAGGAGA G UGGAUGAC	4607	GTCATCCA GGCTAGCTACAACGA TCTCTCC	21728
10122	GAGGACAU G UUGGAGGU	4608	ACCTCCAA GGCTAGCTACAACGA ATGTCTCT	21729
10129	UGUUGGAG G UCUGGAAC	4609	GTTCCAGA GGCTAGCTACAACGA CTCCAACA	21730
10139	CUGGAACC G UGUUGGA	4610	TCCAAACA GGCTAGCTACAACGA GGTTCAG	21731
10141	GGAACCGU G UUUGGAUA	4611	TATCCAAA GGCTAGCTACAACGA ACGGTTCC	21732
10183	AAACCCCA G UGGAGAAA	4612	TTTCTCCA GGCTAGCTACAACGA TGGGTTT	21733
10196	GAAUUGGA G UGACGUCC	4613	GGACGTCA GGCTAGCTACAACGA TCCATTTT	21734
10201	GGAGUGAC G UCCCAUAU	4614	ATATGGGA GGCTAGCTACAACGA GTCATCTC	21735
10233	GACAUCUG G UGUGGCAG	4615	CTGCCACA GGCTAGCTACAACGA CAGATGTC	21736
10235	CAUCUGGU G UGGCAGCC	4616	GGCTGCCA GGCTAGCTACAACGA ACCAGATG	21737
10238	CUGGUGUG G CAGCCUGA	4617	TCAGGCTG GGCTAGCTACAACGA CACACCAG	21738
10241	GUGUGGCA G CCUGAUUG	4618	CAATCAGG GGCTAGCTACAACGA TGCCACAC	21739
10250	CCUGAUUG G CACAAGAG	4619	CTCTTGTT GGCTAGCTACAACGA CAATCAGG	21740
10258	GCACAAGA G CCCGAGCC	4620	GGCTCGGG GGCTAGCTACAACGA TCTGTGTC	21741
10264	GAGCCCGA G CCACGUGG	4621	CCACGTGG GGCTAGCTACAACGA TCGGGCTC	21742
10269	CGAGCCAC G UGGGCAGA	4622	TCTGCCCA GGCTAGCTACAACGA GTGGCTCG	21743
10273	CCACGUGG G CAGAAAAC	4623	GTTTTCTG GGCTAGCTACAACGA CCACGTGG	21744
10288	ACAUCCAG G UGGCUAUC	4624	GATAGCCA GGCTAGCTACAACGA CTGGATGT	21745
10291	UCCAGGUG G CUAUCAAC	4625	GTTGATAG GGCTAGCTACAACGA CACCTGGA	21746
10303	UCAACCAA G UCAGAGCA	4626	TGCTCTGA GGCTAGCTACAACGA TTGTTTGA	21747
10309	AAGUCAGA G CAAUCAUC	4627	GATGATTG GGCTAGCTACAACGA TCTGACTT	21748
10329	GAUGAGAA G UAUGUGGA	4628	TCCACATA GGCTAGCTACAACGA TTCTCATC	21749
10333	AGAAGUAU G UGGAUUAC	4629	GTAATCCA GGCTAGCTACAACGA ATACTTCT	21750
10346	UUACAUGA G UUCACUAA	4630	TTAGTGAA GGCTAGCTACAACGA TCATGTAA	21751
10378	CAACUUUG G UUGAGGAC	4631	GTCCTCAA GGCTAGCTACAACGA CAAAGTTG	21752
10390	AGGACACA G UACUGUAG	4632	CTACAGTA GGCTAGCTACAACGA TGTGTCCT	21753
10395	ACAGUACU G UAGUAUU	4633	AATATCTA GGCTAGCTACAACGA AGTACTGT	21754
10413	AAUCAAUU G UAAAUAGA	4634	TCTATTTA GGCTAGCTACAACGA AATTGATT	21755
10430	CAUAUAAA G UAUGCAUA	4635	TATGCATA GGCTAGCTACAACGA TTATATTG	21756

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10434	AUAAGUAAU G CAUAAAAG	4636	CTTTTATG GGCTAGCTACAACGA ATACTTAT	21757
10442	GCAUAAAA G UGUAGUUU	4637	AAACTACA GGCTAGCTACAACGA TTTTATGC	21758
10444	AUAAAAGU G UAGUUUUA	4638	TAAACTA GGCTAGCTACAACGA ACTTTTAT	21759
10447	AAAGUGUA G UUUUAUAG	4639	CTATAAAA GGCTAGCTACAACGA TACTTTT	21760
10455	GUUUUAUA G UAGUAUUU	4640	AAATACTA GGCTAGCTACAACGA TATAAAC	21761
10458	UUUAUGUA G UAUUUAGU	4641	ACTAAATA GGCTAGCTACAACGA TACTATAA	21762
10465	AGUAUUUA G UGGUGUUA	4642	TAACACCA GGCTAGCTACAACGA TAAATACT	21763
10468	AUUUAGUG G UGUUAGUG	4643	CACTAACA GGCTAGCTACAACGA CACTAAAT	21764
10470	UUAGUGGU G UUAGUGUA	4644	TACACTAA GGCTAGCTACAACGA ACCACTAA	21765
10474	UGGUGUUA G UGUAAAUA	4645	TATTTACA GGCTAGCTACAACGA TAACACCA	21766
10476	GUGUUAGU G UAAAUAGU	4646	ACTATTTA GGCTAGCTACAACGA ACTAACAC	21767
10483	UGUAAUAU G UUAAGAAA	4647	TTTCTTAA GGCTAGCTACAACGA TATTTACA	21768
10506	AGGAGAAA G UCAGGCCG	4648	CGGCCTGA GGCTAGCTACAACGA TTTCTCCT	21769
10511	AAAGUCAG G CCGGGAAG	4649	CTTCCCGG GGCTAGCTACAACGA CTGACTTT	21770
10519	GCCGGGAA G UUCCCGCC	4650	GGCGGGAA GGCTAGCTACAACGA TTCCCGGC	21771
10525	AAGUCCC G CCACCGGA	4651	TCCGGTGG GGCTAGCTACAACGA GGGAACTT	21772
10535	CACCGGAA G UUGAGUAG	4652	CTACTCAA GGCTAGCTACAACGA TTCCGGTG	21773
10540	GAAGUUGA G UAGACGGU	4653	ACCGTCTA GGCTAGCTACAACGA TCAACTTC	21774
10547	AGUAGACG G UGCUGCCU	4654	AGGCAGCA GGCTAGCTACAACGA CGTCTACT	21775
10549	UAGACGGU G CUGCCUGC	4655	GCAGGCAG GGCTAGCTACAACGA ACCGTCTA	21776
10552	ACGGUGCU G CCUGCGAC	4656	GTCGCAGG GGCTAGCTACAACGA AGCACCGT	21777
10556	UGCUGCCU G CGACUCAA	4657	TTGAGTCG GGCTAGCTACAACGA AGGCAGCA	21778
10580	AGGACUGG G UGAACAAA	4658	TTGTTCAT GGCTAGCTACAACGA CCAGTCCT	21779
10589	UGAACAAA G CCGCGAAG	4659	CTTCGCGG GGCTAGCTACAACGA TTTGTTCAT	21780
10592	ACAAAGCC G CGAAGUGA	4660	TCACCTCG GGCTAGCTACAACGA GGCTTTGT	21781
10597	GCCGCGAA G UGAUCCAU	4661	ATGGATCA GGCTAGCTACAACGA TTCGCGGC	21782
10606	UGAUCCAU G UAAGCCCU	4662	AGGGCTTA GGCTAGCTACAACGA ATGGATCA	21783
10610	CCAUGUAA G CCCUCAGA	4663	TCTGAGGG GGCTAGCTACAACGA TTACATGG	21784
10622	UCAGAACC G UCUCGGAA	4664	TTCCGAGA GGCTAGCTACAACGA GGTCTGTA	21785
10645	CCCCACAU G UUGUAACU	4665	AGTTACAA GGCTAGCTACAACGA ATGTGGGG	21786
10648	CACAUUUU G UAACUUCA	4666	TGAAGTTA GGCTAGCTACAACGA AACATGTG	21787
10659	ACUUCAAA G CCCAUGU	4667	ACATTGGG GGCTAGCTACAACGA TTTGAAGT	21788
10666	AGCCCAAU G UCAGACCA	4668	TGGTCTGA GGCTAGCTACAACGA ATTGGGCT	21789
10676	CAGACCAC G CUACGGCG	4669	CGCCGTAG GGCTAGCTACAACGA GTGGTCTG	21790
10682	ACGCUACG G CGUGCUAC	4670	GTAGCAGC GGCTAGCTACAACGA CGTAGCGT	21791
10684	GCUACGGC G UGCUACUC	4671	GAGTAGCA GGCTAGCTACAACGA GCCGTAGC	21792
10686	UACGGCGU G CUACUCUG	4672	CAGAGTAG GGCTAGCTACAACGA ACGCCGTA	21793
10694	GCUACUCU G CGGAGAGU	4673	ACTCTCCG GGCTAGCTACAACGA AGAGTAGC	21794
10701	UGCGGAGA G UGCAGUCU	4674	AGACTGCA GGCTAGCTACAACGA TCTCCGCA	21795
10703	CGGAGAGU G CAGUCUGC	4675	GCAGACTG GGCTAGCTACAACGA ACTCTCCG	21796
10706	AGAGUGCA G UCUGCGAU	4676	ATCGCAGA GGCTAGCTACAACGA TGCATCT	21797
10710	UGCAGUCU G CGAUAGUG	4677	CACTATCG GGCTAGCTACAACGA AGACTGCA	21798
10716	CUGCGAUA G UGCCCCAG	4678	CTGGGGCG GGCTAGCTACAACGA TATCGCAG	21799
10718	GCGAUAGU G CCCCAGGA	4679	TCCTGGGG GGCTAGCTACAACGA ACTATCGC	21800
10734	AGGACUGG G UUAACAAA	4680	TTGTTTAA GGCTAGCTACAACGA CCAGTCCT	21801
10744	UAACAAAG G CAAACCAA	4681	TTGGTTTG GGCTAGCTACAACGA CTTGTGTA	21802
10754	AAACCAAC G CCCACGC	4682	GCGTGGGG GGCTAGCTACAACGA GTTGGTTT	21803
10761	CGCCCCAC G CGGCCCUA	4683	TAGGGCCG GGCTAGCTACAACGA GTGGGGCG	21804
10764	CCCACGCG G CCCUAGCC	4684	GGCTAGGG GGCTAGCTACAACGA CGCGTGGG	21805
10770	CGGCCCUA G CCCCGGUA	4685	TACCGGGG GGCTAGCTACAACGA TAGGGCCG	21806
10776	UAGCCCCG G UAAUGGUG	4686	CACCATTA GGCTAGCTACAACGA CGGGGCTA	21807
10782	CGGUAAUG G UGUUAACC	4687	GGTTAACA GGCTAGCTACAACGA CATTACCG	21808
10784	GUAAUGGU G UUAACCAG	4688	CTGGTTAA GGCTAGCTACAACGA ACCATTAC	21809
10794	UAACCAAG G CGAAAGGA	4689	TCCTTTTC GGCTAGCTACAACGA CTTGGTTA	21810
10809	GACUAGAG G UUAGAGGA	4690	TCCTCTAA GGCTAGCTACAACGA CTCTAGTC	21811
10824	GAGACCCC G CGGUUUA	4691	TTAAACCG GGCTAGCTACAACGA GGGGTCTC	21812
10827	ACCCCGCG G UUUAAAGU	4692	ACTTTAAA GGCTAGCTACAACGA CGCGGGGT	21813
10834	GGUUUAAA G UGCACGGC	4693	GCCGTGCA GGCTAGCTACAACGA TTTAAACC	21814
10836	UUUAAAGU G CACGGCCC	4694	GGGCCGTG GGCTAGCTACAACGA ACTTTAAA	21815
10841	AGUGCACG G CCCAGCCU	4695	AGGCTGGG GGCTAGCTACAACGA CGTGCACT	21816
10846	ACGGCCCA G CCUGACUG	4696	CAGTCAGG GGCTAGCTACAACGA TGGGCGGT	21817
10857	UGACUGAA G CUGUAGGU	4697	ACCTACAG GGCTAGCTACAACGA TTCAGTCA	21818

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10860	CUGAAGCU G UAGGUCAG	4698	CTGACCTA GGCTAGCTACAACGA AGCTTCAG	21819
10864	AGCUGUAG G UCAGGGGA	4699	TCCCCTGA GGCTAGCTACAACGA CTACAGCT	21820
10883	GACUAGAG G UUAGUGGA	4700	TCCACTAA GGCTAGCTACAACGA CTCTAGTC	21821
10887	AGAGGUUA G UGGAGACC	4701	GGTCTCCA GGCTAGCTACAACGA TAACCTCT	21822
10898	GAGACCCC G UGCCACAA	4702	TTGTGGCA GGCTAGCTACAACGA GGGGTCTC	21823
10900	GACCCCGU G CCACAAAA	4703	TTTTGTGG GGCTAGCTACAACGA ACGGGGTC	21824
10924	ACAAAACA G CAUAUUGA	4704	TCAATATG GGCTAGCTACAACGA TGTTTTGT	21825
10960	GAUCUUCU G CUCUGCAC	4705	GTGCAGAG GGCTAGCTACAACGA AGAAGATC	21826
10965	UCUGUCUCU G CACAACCA	4706	TGTTTGTG GGCTAGCTACAACGA AGAGCAGA	21827
10974	CACAACCA G CCACACGG	4707	CCGTGTGG GGCTAGCTACAACGA TGGTTGTG	21828
10982	CCCACACG G CACAGUGC	4708	GCACTGTG GGCTAGCTACAACGA CGTGTGGC	21829
10987	ACGGCACA G UGCGCCGA	4709	TGGGCGCA GGCTAGCTACAACGA TGTGCCGT	21830
10989	GGCACAGU G CGCCGACA	4710	TGTCGGCG GGCTAGCTACAACGA ACTGTGCC	21831
10991	CACAGUGC G CCGACAAU	4711	ATTGTGCG GGCTAGCTACAACGA GCACTGTG	21832
11001	CGACAAUG G UGGCUGGU	4712	ACCAGCCA GGCTAGCTACAACGA CATTGTGC	21833
11004	CAUUGGUG G CUGGUGGU	4713	ACCACCAG GGCTAGCTACAACGA CACCATTC	21834
11008	GGUGGCUG G UGGUGCGA	4714	TCGCACCA GGCTAGCTACAACGA CAGCCACC	21835
11011	GGCUGGUG G UGCGAGAA	4715	TTCTCGCA GGCTAGCTACAACGA CACCAGCC	21836
11013	CUGGUGGU G CGAGAACA	4716	TGTTCTCG GGCTAGCTACAACGA ACCACCAG	21837
23	GUGAGCUG A CAAACUUA	4717	TAAGTTTG GGCTAGCTACAACGA CAGTCCAC	21838
27	GCUGACAA A CUUAGUAG	4718	CTACTAGG GGCTAGCTACAACGA TTGTCAAG	21839
47	UUGUGAGG A UUAACAAC	4719	GTTGTTAA GGCTAGCTACAACGA CCTCACAA	21840
51	GAGGAUUA A CAACAAU	4720	AATTGTTG GGCTAGCTACAACGA TAATCCTC	21841
54	GAUUAACA A CAUUAAC	4721	GTTAATTG GGCTAGCTACAACGA TGTTAATC	21842
57	UAACAACA A UUAACACA	4722	TGTGTTAA GGCTAGCTACAACGA TGTTGTTA	21843
61	AACAAUUA A CACAGUGC	4723	GCACTGTG GGCTAGCTACAACGA TAATTGTT	21844
91	GCACGAAG A UCUCGAUG	4724	CATCGAGA GGCTAGCTACAACGA CTTCGTGC	21845
97	AGAUCUCG A UGUCUAAG	4725	CTTAGACA GGCTAGCTACAACGA CGAGATCT	21846
108	UCUAAGAA A CCAGGAGG	4726	CCTCCTGG GGCTAGCTACAACGA TTCTTAGA	21847
140	GGCUGUCA A UAUGCUA	4727	TTAGCATA GGCTAGCTACAACGA TGACAGCC	21848
150	AUGCUIAA A CGCGGAU	4728	ATTCCGCG GGCTAGCTACAACGA TTAGCAT	21849
157	AACGCGGA A UGCCCCGC	4729	GCGGGGCA GGCTAGCTACAACGA TCCGCGTT	21850
178	UGUCCUUG A UUGGACUG	4730	CAGTCCAA GGCTAGCTACAACGA CAAGGACA	21851
183	UGAUUUGG A CUGAAGAG	4731	CTCTTCAG GGCTAGCTACAACGA CCAATCAA	21852
208	UGAGCCUG A UCGACGGC	4732	GCCGTCGA GGCTAGCTACAACGA CAGGCTCA	21853
212	CCUGAUCG A CGGCAAGG	4733	CCTTGCCG GGCTAGCTACAACGA CGATCAGG	21854
226	AGGGGCCA A UACGAUUU	4734	AAATCGTA GGCTAGCTACAACGA TGGCCCCCT	21855
231	CCAAUACG A UUUGUUU	4735	AACACAAA GGCTAGCTACAACGA CGTATTGG	21856
271	UCACAGCA A UUGCUCCG	4736	CGGAGCAA GGCTAGCTACAACGA TGCTGTGA	21857
280	UUGCUCCG A CCCGAGCA	4737	TGCTCGGG GGCTAGCTACAACGA CGGAGCAA	21858
296	AGUGCUGG A UCGAUGGA	4738	TCCATCGA GGCTAGCTACAACGA CCAGCACT	21859
300	CUGGAUCG A UGGAGAGG	4739	CCTCTCCA GGCTAGCTACAACGA CGATCCAG	21860
314	AGGUGUGA A CAAACAAA	4740	TTGTGTTG GGCTAGCTACAACGA TCACACCT	21861
318	GUGAACAA A CAAACAGC	4741	GCTGTTTG GGCTAGCTACAACGA TTGTTTAC	21862
322	ACAAACAA A CAGCGAUG	4742	CATCGCTG GGCTAGCTACAACGA TTGTTTGT	21863
328	AAACAGCG A UGAAACAC	4743	GTGTTTCA GGCTAGCTACAACGA CGCTGTTT	21864
333	GCGAUGAA A CACCUUCU	4744	AGAAGGTG GGCTAGCTACAACGA TTCATCGC	21865
357	AAGAAGGA A CUAGGGAC	4745	GTCCCTAG GGCTAGCTACAACGA TCCTTCTT	21866
364	AACUAGGG A CCUUGACC	4746	GGTCAAGG GGCTAGCTACAACGA CCCTAGTT	21867
370	GGACCUUG A CCAGUGCU	4747	AGCACTGG GGCTAGCTACAACGA CAAGGTCC	21868
383	UGCUAUCA A UCGGCGGA	4748	TCCGCCGA GGCTAGCTACAACGA TGATAGCA	21869
399	AGCUCAAA A CAAAAGAA	4749	TTCTTTTG GGCTAGCTACAACGA TTTGAGCT	21870
421	GAGGAAAG A CCGGAUU	4750	AATTCCGG GGCTAGCTACAACGA CTTTCCTC	21871
427	AGACCGGA A UUGCAGUC	4751	GACTGCAA GGCTAGCTACAACGA TCCGGTCT	21872
439	CAGUCAUG A UUGGCCUG	4752	CAGGCCAA GGCTAGCTACAACGA CATGACTG	21873
448	UUGGCCUG A UCGCCAGC	4753	GCTGGCGA GGCTAGCTACAACGA CAGGCCAA	21874
479	CCUCUCUA A CUUCCAAG	4754	CTTGGAAG GGCTAGCTACAACGA TAGAGAGG	21875
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499	AGGUGAUG A UGACGGUA	4756	TACCGTCA GGCTAGCTACAACGA CATCACCT	21877
502	UGAUGAUG A CGUAAAU	4757	ATTTACCG GGCTAGCTACAACGA CATCATCA	21878
509	GACGGUAA A UGCUACUG	4758	CAGTAGCA GGCTAGCTACAACGA TTACCGTC	21879
518	UGCUAUCG A CGUCACAG	4759	CTGTGACG GGCTAGCTACAACGA CAGTAGCA	21880

527	CGUCACAG A UGUCAUCA	4760	TGATGACA GGCTAGCTACAACGA CTGTGACG	21881
538	UCAUCACG A UUCAACA	4761	TGTTGGAA GGCTAGCTACAACGA CGTGATGA	21882
544	CGAUUCCA A CAGCUGCU	4762	AGCAGCTG GGCTAGCTACAACGA TGAATCG	21883
560	UGGAAAGA A CCUAUGCA	4763	TGCATAGG GGCTAGCTACAACGA TCTTTCCA	21884
580	UCAGAGCA A UGGAUGUG	4764	CACATCCA GGCTAGCTACAACGA TGCTCTGA	21885
584	AGCAAUGG A UGUGGGAU	4765	ATCCCACA GGCTAGCTACAACGA CCATTGCT	21886
591	GAUGUGG A UACAUGUG	4766	CACATGTA GGCTAGCTACAACGA CCCACATC	21887
602	CAUGUGCG A UGAUACUA	4767	TAGTATCA GGCTAGCTACAACGA CGCACATG	21888
605	GUGCGAUG A UACUAUCA	4768	TGATAGTA GGCTAGCTACAACGA CATCGCAC	21889
621	ACUUAUGA A UGCCCAGU	4769	ACTGGGCA GGCTAGCTACAACGA TCATAAGT	21890
644	GGCUGGUA A UGAUCCAG	4770	CTGGATCA GGCTAGCTACAACGA TACCAGCC	21891
647	UGGUAUUG A UCCAGAAG	4771	CTTCTGGA GGCTAGCTACAACGA CATTACCA	21892
656	UCCAGAAG A CAUCGACU	4772	AGTCGATG GGCTAGCTACAACGA CTCTGGA	21893
662	AGACAUUG A CUGUUGGU	4773	ACCAACAG GGCTAGCTACAACGA CGATGTCT	21894
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715	GCACCAAG A CACGCCAC	4775	GTGGCGTG GGCTAGCTACAACGA CTGGTGC	21896
729	CACUCAAG A CGCAGUCG	4776	CGACTGCG GGCTAGCTACAACGA CTTGAGTG	21897
748	GGUCACUG A CAGUGCAG	4777	CTGCACTG GGCTAGCTACAACGA CAGTGACC	21898
757	CAGUGCAG A CACACGGA	4778	TCCGTGTG GGCTAGCTACAACGA CTGCACTG	21899
782	UCUAGCGA A CAAGAAGG	4779	CCTTCTTG GGCTAGCTACAACGA TCGCTAGA	21900
799	GGCUUGG A UGGACAGC	4780	GCTGTCCA GGCTAGCTACAACGA CCAAGCCC	21901
803	UUGGAUGG A CAGCACCA	4781	TGGTGCTG GGCTAGCTACAACGA CCATCCAA	21902
835	UGGUA AAA A CAGAAUCA	4782	TGATTCTG GGCTAGCTACAACGA TTTTACCA	21903
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908	UGGAGCA A CACCAUGC	4788	GCATGGTG GGCTAGCTACAACGA TGCTCCCA	21909
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1021	CUGGAGCA A CAUGGGUG	4793	CACCCATG GGCTAGCTACAACGA TGCTCCAG	21914
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1166	CGUCAGCG A UCUCUCCA	4803	TGGAGAGA GGCTAGCTACAACGA CGCTGACG	21924
1192	CGUGCCCG A CCAUGGGA	4804	TCCCATGG GGCTAGCTACAACGA CGGGCAGC	21925
1211	AGCUCACA A UGACAAAC	4805	GTTTGTCA GGCTAGCTACAACGA TGTGAGCT	21926
1214	UCACAAUG A CAAACGUG	4806	CACGTTTG GGCTAGCTACAACGA CATGTGTA	21927
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1226	ACGUGCUG A CCCAGCUU	4808	AAGCTGGG GGCTAGCTACAACGA CAGCACGT	21929
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1274	CUGGGGCA A CGGUGCG	4811	CGCAGCCG GGCTAGCTACAACGA TGCCCCAG	21932
1284	GGCUGCGG A UUAUUGG	4812	CCAAATAA GGCTAGCTACAACGA CCGCAGCC	21933
1307	AAGCAUUG A CACAUGCG	4813	CGCATGTG GGCTAGCTACAACGA CAATGCTT	21934
1320	UGCGCCAA A UUUGCCUG	4814	CAGGCAAA GGCTAGCTACAACGA TTGGCGCA	21935
1342	CCAAGGCA A UAGGAAGA	4815	TCTTCTTA GGCTAGCTACAACGA TGCCTTGG	21936
1351	UAGGAAGA A CCAUCUUG	4816	CAAGATGG GGCTAGCTACAACGA TCTTCTTA	21937
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1405	AUGGACCA A CUACUGUG	4819	CACAGTAG GGCTAGCTACAACGA TGGTCCAT	21940
1427	GCACGGAA A CUACUCCA	4820	TGGAGTAG GGCTAGCTACAACGA TTCCGTGC	21941
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1532	GACAGUGG A CUGUGAAC	4824	GTTCCACG GGCTAGCTACAACGA CCACTGTC	21945
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1631	GGACCUCA A CCUCCCUU	4834	AAGGGAGG GGCTAGCTACAACGA TGAGGTCC	21955
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1840	GAGUGAAG A UGGAAAAA	4843	TTTTTCCA GGCTAGCTACAACGA CTTCACTC	21964
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1916	UCCCGCAG A CACAGGUC	4848	GACCTGTG GGCTAGCTACAACGA CTGCGGGA	21969
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1968	ACGGAUGG A CCUUGCAA	4851	TTGCAAGG GGCTAGCTACAACGA CCATCCGT	21972
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2390	GGGCAUCA A UGCUCGUG	4875	CACGAGCA GGCTAGCTACAACGA TGATGCC	21996
2399	UGCUCCUG A UAGGUCCA	4876	TGGACCTA GGCTAGCTACAACGA CACGAGCA	21997
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2696	CGAGCUGA A CACUCUUU	4891	AAAGAGTG GGCTAGCTACAACGA TCAGCTCG	22012
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2861	CGCCAACA A CACCUUUG	4901	CAAAGGTG GGCTAGCTACAACGA TGTGGCG	22022
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3743	GGGAGGAG A CGUGGUAC	4965	GTACCACG GGCTAGCTACAACGA CTCCTCCC	22086
3769	UCAUGGCG A CCUUCAAG	4966	CTTGAAGG GGCTAGCTACAACGA CGCCATGA	22087
3778	CCUUCAAG A UACAACCA	4967	TGGTTGTA GGCTAGCTACAACGA CTTGAAGG	22088
3783	AAGAUACA A CCAGUGUU	4968	AACACTGG GGCTAGCTACAACGA TGTATCTT	22089
3819	AAAGCGAG A UGGACCAA	4969	TTGGTCCA GGCTAGCTACAACGA CTCGCTTT	22090
3823	CGAGAUUG A CCAACCAG	4970	CTGGTTGG GGCTAGCTACAACGA CCATCTCG	22091
3827	AUGGACCA A CCAGGAGA	4971	TCTCCTGG GGCTAGCTACAACGA TGGTCCAT	22092
3836	CCAGGAGA A CAUUUUGU	4972	ACAAAATG GGCTAGCTACAACGA TCTCCTGG	22093
3847	UUUUGUUG A UGUUGGCG	4973	CGCCAACA GGCTAGCTACAACGA CAACAAA	22094
3871	UCUUUCAA A UGGCUUAU	4974	ATAAGCCA GGCTAGCTACAACGA TTGAAGA	22095
3884	UUUAUCAG A UGCCCCGCC	4975	GGCGGGCA GGCTAGCTACAACGA CGTGATAA	22096
3895	CCCCCCAA A UUCUGCUC	4976	GAGCAGAA GGCTAGCTACAACGA TTGGCGGG	22097
3910	UCUGGGAG A UCCCUGAU	4977	ATCAGGGA GGCTAGCTACAACGA CTCCAGAA	22098
3917	GAUCCUG A UGUGUUGA	4978	TCAACACA GGCTAGCTACAACGA CAGGGATC	22099
3926	UGUGUUGA A UUCACUGG	4979	CCAGTGAA GGCTAGCTACAACGA TCAACACA	22100
3946	UAGCUUGG A UGAUACUG	4980	CAGTATCA GGCTAGCTACAACGA CCAAGCTA	22101
3949	CUUGGAUG A UACUGAGA	4981	TCTCAGTA GGCTAGCTACAACGA CATCCAAG	22102
3964	GAGCCAUA A CAUUCACA	4982	TGTGAATG GGCTAGCTACAACGA TGTGGCTC	22103
3973	CAUUCACA A CGACAUCA	4983	TGATGTCT GGCTAGCTACAACGA TGTGAATG	22104
3976	UCACAACG A CAUCAAAC	4984	GTTTGATG GGCTAGCTACAACGA CGTTGTGA	22105
3983	GACAUCAA A CGUGGUUG	4985	CAACCACG GGCTAGCTACAACGA TTGATGTC	22106
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4034	AUGCUUGA A UCUGGAUG	4988	CATCCAGA GGCTAGCTACAACGA TCAAGCAT	22109
4040	GAAUCUGG A UGUGUACA	4989	TGTACACA GGCTAGCTACAACGA CCAGATTC	22110
4051	UGUACAGG A UACUGCUG	4990	CAGCAGTA GGCTAGCTACAACGA CCTGTACA	22111
4063	UGCUGUUG A UGGUCGGA	4991	TCCGACCA GGCTAGCTACAACGA CAACAGCA	22112
4072	UGGUCGGA A UAGGCAGC	4992	GCTGCCTA GGCTAGCTACAACGA TCCGACCA	22113
4084	GCAGCUUG A UCAGGGAG	4993	CTCCCTGA GGCTAGCTACAACGA CAAGCTGC	22114
4153	UAGCCUCA A CAGGACUU	4994	AAGTCTTG GGCTAGCTACAACGA TGAGGCTA	22115
4158	UCAACAGG A CUUUUCAA	4995	TTGAAAAG GGCTAGCTACAACGA CCTGTTGA	22116
4166	ACUUUUA A CCCCUGA	4996	TCATGGGG GGCTAGCTACAACGA TGAAGAAGT	22117
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4188	GCUGCUGG A CUGAUUGC	4998	GCAATCAG GGCTAGCTACAACGA CCAGCAGC	22119
4192	CUGGACUG A UUGCAUGU	4999	ACATGCAA GGCTAGCTACAACGA CAGTCCAG	22120
4202	UGCAUGUG A UCCCAACC	5000	GGTTGGGA GGCTAGCTACAACGA CACATGCA	22121
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4215	AACCGUAA A CGCGGAUG	5002	CATCCGCG GGCTAGCTACAACGA TTACGGTT	22123
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4231	GGCCCGCA A CUGAAGUG	5004	CACTTCAG GGCTAGCTACAACGA TCGGGGCC	22125
4240	CUGAAGUG A UGACAGCU	5005	AGCTGTCA GGCTAGCTACAACGA CACTTCAG	22126
4243	AAGUGAUG A CAGCUGUC	5006	GACAGCTG GGCTAGCTACAACGA CATCACTT	22127
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4351	CUUUCGUG A UUUCUGGG	5012	CCCAGAAA GGCTAGCTACAACGA CACGAAAG	22133
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4378	AUAUGUGG A UUGAGAGA	5016	TCTCTCAA GGCTAGCTACAACGA CCACATAT	22137
4387	UUGAGAGA A CGGCGGAC	5017	GTCCGCCG GGCTAGCTACAACGA TCTCTCAA	22138
4394	AACGGCGG A CAUUUCCU	5018	AGGAAATG GGCTAGCTACAACGA CCGCCGTT	22139
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4445	AAGAGUUG A UGUGCGGC	5021	GCCGCACA GGCTAGCTACAACGA CAACTCTT	22142
4457	GCGGCUUG A UGAUGAUG	5022	CATCATCA GGCTAGCTACAACGA CAAGCCGC	22143
4460	GCUUGAUG A UGAUGGAA	5023	TTCCATCA GGCTAGCTACAACGA CATCAAGC	22144
4463	UGAUGAUG A UGGAAACU	5024	AGTTTCCA GGCTAGCTACAACGA CATCATCA	22145
4469	UGAUGGAA A CUUCCAGC	5025	GCTGGAAG GGCTAGCTACAACGA TTCCATCA	22146
4484	GCUCUAGA A UGAUCCAG	5026	CTGGATCA GGCTAGCTACAACGA TCATGAGC	22147
4487	CAUGAAUG A UCCAGGAG	5027	CTCCTGGA GGCTAGCTACAACGA CATTCTATG	22148
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4513	AGAUUGG A UGCUCAGA	5029	TCTGAGCA GGCTAGCTACAACGA CCATATCT	22150
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4561	CCUGGGCA A UCUUGCCC	5032	GGGCAAGA GGCTAGCTACAACGA TGCCCAGG	22153
4581	GUAGUUGG A UUUUGGAU	5033	ATCCAAA GGCTAGCTACAACGA CCAACTAC	22154
4588	GAUUUUGG A UAACUCUC	5034	GAGAGTTA GGCTAGCTACAACGA CCAAATC	22155
4591	UUUGGAUA A CUCUCCAA	5035	TTGGAGAG GGCTAGCTACAACGA TATCCAAA	22156
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5949	CUGGGAGA A CCAUCUGC	5140	GCAGATGG GGCTAGCTACAACGA TCTCCCAG	22261
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6625	CUCUUCAG A CAAUUGCC	5187	GGCAATTG GGCTAGCTACAACGA CTGAAGAG	22308
6628	UUCAGACA A UUGCCUUG	5188	CAAGGCAA GGCTAGCTACAACGA TGTCTGAA	22309
6637	UUGCCUUG A UUGCCUUA	5189	TAAGGCAA GGCTAGCTACAACGA CAAGGCAA	22310
6655	UGAGUGUG A UGACCAUG	5190	CATGGTCA GGCTAGCTACAACGA CACACTCA	22311
6658	GUGUGAUG A CCAUGGGA	5191	TCCCATGG GGCTAGCTACAACGA CATCACAC	22312
6706	UUGGAAAG A UAGGUUUG	5192	CAAACTTA GGCTAGCTACAACGA CTTTCCAA	22313
6739	GAGUCGCG A CCUUUUUC	5193	GAAAAGG GGCTAGCTACAACGA CGGACTC	22314

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6772	UUCCAGGA A CGAAGAUC	5195	GATCTTCG GGCTAGCTACAACGA TCCTGGAA	22316
6778	GAACGAAG A UCGCCGGA	5196	TCCGGCGA GGCTAGCTACAACGA CTTCTGTC	22317
6787	UCGCCGGA A UGUUGCUG	5197	CAGCAACA GGCTAGCTACAACGA TCCGGCGA	22318
6811	UUCUCUUG A UGAUUGUG	5198	CACAATCA GGCTAGCTACAACGA CAAGAGAA	22319
6814	UCUUGAUG A UUGUGCUA	5199	TAGCACAA GGCTAGCTACAACGA CATCAAGA	22320
6823	UUGUGCUA A UUCCUGAG	5200	CTCAGGAA GGCTAGCTACAACGA TAGCACAA	22321
6843	GAGAAGCA A CGUUCGCA	5201	TGCGAACG GGCTAGCTACAACGA TGCTTCTC	22322
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6857	GCAGACAG A CAACCAGC	5203	GCTGGTTG GGCTAGCTACAACGA CTGTCTGC	22324
6860	GACAGACA A CCAGCUAG	5204	CTAGCTGG GGCTAGCTACAACGA TGTCTGTC	22325
6880	UGUUCUG A UUGUGUC	5205	GACACAAA GGCTAGCTACAACGA CAGGAACA	22326
6892	GUGUCAUG A CCCUUGUG	5206	CACAAGGG GGCTAGCTACAACGA CATGACAC	22327
6917	GGCAGCCA A CGAGAUGG	5207	CCATCTCG GGCTAGCTACAACGA TGGCTGCC	22328
6922	CCAACGAG A UGGGUUGG	5208	CCAACCCA GGCTAGCTACAACGA CTCGTTGG	22329
6935	UUGGCUAG A UAAGACCA	5209	TGGTCTTA GGCTAGCTACAACGA CTAGCCAA	22330
6940	UAGAUAA A CCAAGAGU	5210	ACTCTTGG GGCTAGCTACAACGA CTTATCTA	22331
6950	CAAGAGUG A CAUAAGCA	5211	TGCTTATG GGCTAGCTACAACGA CACTCTTG	22332
6976	GGCAAAGA A UUGAGGUC	5212	GACCTCAA GGCTAGCTACAACGA TCTTTGCC	22333
6992	CAAGGAGA A UUUCAGCA	5213	TGCTGAAA GGCTAGCTACAACGA TCTCCTTG	22334
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7093	AGCAUUG A UCACGUCA	5218	TGACGTGA GGCTAGCTACAACGA CAAATGCT	22339
7103	CACGUCAG A UUACAUCA	5219	TGATGTAA GGCTAGCTACAACGA CTGACGTG	22340
7112	UUACAUCA A CACCUCAU	5220	ATGAGGTG GGCTAGCTACAACGA TGATGTAA	22341
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7129	UGACCUCA A UAAACGUU	5222	AACGTTTA GGCTAGCTACAACGA TGAGGTCA	22343
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7358	CAUGAAGA A CGCUGUAG	5232	CTACAGCG GGCTAGCTACAACGA TCTTCATG	22353
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7642	UAACAUGG A CACUCAUA	5250	TATGAGTG GGCTAGCTACAACGA CCATGTAA	22371
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7695	GCAAAAGG A CGCACCUC	5254	AAGGTGCG GGCTAGCTACAACGA CCTTTTGC	22375
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7787	CGAAGUCG A UCGCUCAG	5259	CTGAGCGA GGCTAGCTACAACGA CGACTTCG	22380
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8164	AUAGGACG A UUCGGGUC	5279	GACCCGAA GGCTAGCTACAACGA CGTCCTAT	22400
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10199	AUGGAGUG A CGUCCCAU	5407	ATGGGACG GGCTAGCTACAACGA CACTCCAT	22528
10218	UCAGGAAA A CGAGAGGA	5408	TCCTCTCG GGCTAGCTACAACGA TTTCTCTGA	22529
10226	ACGAGAGG A CAUCUGGU	5409	ACCAGATG GGCTAGCTACAACGA CCTCTCGT	22530
10246	GCAGCCUG A UUGGCACA	5410	TGTGCCAA GGCTAGCTACAACGA CAGGCTGC	22531
10280	GGCAGAAA A CAUCCAGG	5411	CCTGGATG GGCTAGCTACAACGA TTTCTGCC	22532
10298	GGCUAUCA A CCAAGUCA	5412	TGACTTGG GGCTAGCTACAACGA TGATAGCC	22533
10312	UCAGAGCA A UCAUCGGA	5413	TCCGATCA GGCTAGCTACAACGA TGCTCTGA	22534
10322	CAUCGGAG A UGAGAAGU	5414	ACTTCTCA GGCTAGCTACAACGA CTCGATG	22535
10337	GUAUGUGG A UUAUAUGA	5415	TCATGTAA GGCTAGCTACAACGA CCACATAC	22536
10359	CUAAAGAG A UAUGAAGA	5416	TCTTCATA GGCTAGCTACAACGA CTCTTTAG	22537
10367	AUAUGAAG A CACAACUU	5417	AAGTTGTG GGCTAGCTACAACGA CTTCATAT	22538
10372	AAGACACA A CUUUGGUU	5418	AACCAAAG GGCTAGCTACAACGA TGTGTCTT	22539
10385	GGUUGAGG A CACAGUAC	5419	GTACTGTG GGCTAGCTACAACGA CCTCAACC	22540
10399	UACUGUAG A UAUUUAU	5420	ATTAAATA GGCTAGCTACAACGA CTACAGTA	22541
10406	GAUAUUUA A UCAAUUGU	5421	ACAATTGA GGCTAGCTACAACGA TAAATATC	22542
10410	UUUAUAUA A UUGUAAAU	5422	ATTTCAA GGCTAGCTACAACGA TGATTAAA	22543
10417	AAUUGUAA A UAGACAAU	5423	ATTGTCTA GGCTAGCTACAACGA TTACAATT	22544
10421	GUAUAUAG A CAAUAUAA	5424	TTATATTG GGCTAGCTACAACGA CTATTTAC	22545
10424	AAUAGACA A UAUAAGUA	5425	TACTTATA GGCTAGCTACAACGA TGTCTATT	22546
10480	UAGUGUAA A UAGUUAAG	5426	CTTAACTA GGCTAGCTACAACGA TTACACTA	22547
10492	UUAAGAAA A UUUUGAGG	5427	CCTCAAAA GGCTAGCTACAACGA TTTCTTAA	22548
10544	UUGAGUAG A CGUGGCUG	5428	CAGCACCG GGCTAGCTACAACGA CTACTCAA	22549
10559	UGCCUGCG A CUCAACCC	5429	GGGTTGAG GGCTAGCTACAACGA CGCAGGCA	22550
10564	GCGACUCA A CCCCAGGA	5430	TCCTGGGG GGCTAGCTACAACGA TGAGTCGC	22551
10575	CCAGGAGG A CUGGGUGA	5431	TCACCCAG GGCTAGCTACAACGA CCTCTGG	22552
10584	CUGGGUGA A CAAAGCCG	5432	CGGCTTTG GGCTAGCTACAACGA TCACCCAG	22553
10600	GCGAAGUG A UCCAUGUA	5433	TACATGGA GGCTAGCTACAACGA CACTTCGC	22554
10619	CCCUCAGA A CCGUCUCG	5434	CGAGACGG GGCTAGCTACAACGA TCTGAGGG	22555
10636	GAAGGAGG A CCCCACAU	5435	ATGTGGGG GGCTAGCTACAACGA CCTCCTTC	22556
10651	AUGUUGUA A CUUCAAAG	5436	CTTTGAAG GGCTAGCTACAACGA TACAACAT	22557
10664	AAAGCCCA A UGUCAGAC	5437	GTCTGACA GGCTAGCTACAACGA TGGGCTTT	22558
10671	AAUGUCAG A CCACGCUA	5438	TAGCGTGG GGCTAGCTACAACGA CTGACATT	22559
10713	AGUCUGCG A UAGUGCCC	5439	GGGCACTA GGCTAGCTACAACGA CGCAGACT	22560
10729	CCAGGAGG A CUGGGUUA	5440	TAACCCAG GGCTAGCTACAACGA CCTCCTGG	22561
10738	CUGGGUUA A CAAAGGCA	5441	TGCCTTTG GGCTAGCTACAACGA TAACCCAG	22562

10748	AAAGGCAA A CCAACGCC	5442	GGCGTTGG GGCTAGCTACAACGA TTGCCTTT	22563
10752	GCAAACCA A CGCCCCAC	5443	GTGGGGCG GGCTAGCTACAACGA TGGTTTGC	22564
10779	CCCCGUA A UGGUGUUA	5444	TAACACCA GGCTAGCTACAACGA TACCGGGG	22565
10788	UGGUGUUA A CCAGGGCG	5445	CGCCCTGG GGCTAGCTACAACGA TAACACCA	22566
10802	GCGAAAGG A CUAGAGGU	5446	ACCTCTAG GGCTAGCTACAACGA CCTTTCGC	22567
10819	UAGAGGAG A CCCC GCGG	5447	CCGCGGGG GGCTAGCTACAACGA CTCCTCTA	22568
10851	CCAGCCUG A CUGAAGCU	5448	AGCTTCAG GGCTAGCTACAACGA CAGGCTGG	22569
10876	GGGGAAGG A CUAGAGGU	5449	ACCTCTAG GGCTAGCTACAACGA CCTTCCCC	22570
10893	UAGUGGAG A CCCCUGGC	5450	GCACGGGG GGCTAGCTACAACGA CTCCACTA	22571
10908	GCCACAAA A CACCACAA	5451	TTGTGGTG GGCTAGCTACAACGA TTGTGGC	22572
10916	ACACCACA A CAAAACAG	5452	CTGTTTTG GGCTAGCTACAACGA TGTGGTGT	22573
10921	ACAACAAA A CAGCAUUA	5453	ATATGCTG GGCTAGCTACAACGA TTGTGTGT	22574
10932	GCAUAUUG A CACCUGGG	5454	CCCAGGTG GGCTAGCTACAACGA CAATATGC	22575
10941	CACCUGGG A UAGACUAG	5455	CTAGTCTA GGCTAGCTACAACGA CCCAGGTG	22576
10945	UGGGAUAG A CUAGGAGA	5456	TCTCCTAG GGCTAGCTACAACGA CTATCCCA	22577
10953	ACUAGGAG A UCUUCUGC	5457	GCAGAAGA GGCTAGCTACAACGA CTCCTAGT	22578
10970	UCUGCACA A CCAGCCAC	5458	GTGGCTGG GGCTAGCTACAACGA TGTGCAGA	22579
10995	GUGCGCCG A CAAUGGUG	5459	CACCATTG GGCTAGCTACAACGA CGGCGCAC	22580
10998	CGCCGACA A UGGUGGCU	5460	AGCCACCA GGCTAGCTACAACGA TGTCGGCG	22581
11019	GUGCGAGA A CACAGGAU	5461	ATCCTGTG GGCTAGCTACAACGA TCTCGCAC	22582

Input Sequence = AF196835. Cut Site = R/Y

Arm Length = 8. Core Sequence = GGCTAGCTACAACGA

AF196835 West Nile virus strain NY99-flamingo382-99, complete genome

Table VII

Table VII: WNV Amberzyme and Target Sequence

Pos	Substrate	Seq ID	Ribozyme	Rz Seq ID
9	AGUAGUUC G CCUGUGUG	3462	CACACAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACUACU	22583
13	GUUCGCCU G UGUGAGCU	3463	AGUCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCGAAC	22584
15	UCGCCUUG G UGAGCUGA	3464	UCAGTCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGGCGA	22585
19	CUGUGUGA G CUGACAAA	3465	UUUGUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACACAG	22586
32	CAACCTUA G UAGUGUUU	3466	AAACACTA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAAGUUUG	22587
35	ACUUAAGUA G UGUUUGUG	3467	CACAAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACUAAAGU	22588
37	UAGUGAGU G UUUGUGAG	3468	CUCACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACUAA	22589
41	UAGUGUUU G UGAGGAUU	3469	AAUCCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACACUA	22590
66	UUAACACA G UGCGAGCU	3470	AGCUCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGUUA	22591
68	AACACAGU G CGAGCUGU	3471	ACAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUGUU	22592
72	CAGUGCGA G CUGUUUCU	3472	AGAAACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGCACUG	22593
75	UGCAGGU G UUUCUUG	3473	CUAAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCGCA	22594
83	GUUUCUUA G CACGAAGA	3474	UUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGAHAAC	22595
99	AUCUCGAU G UCURAGAA	3475	UUUCUAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCGAGAU	22596
117	CCAGGAGG G CCCGGCAA	3476	UUGCCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUUGG	22597
122	AGGCCCG G CAAGAGCC	3477	GGCUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGCCCU	22598
128	CGGACAGA G CCGGGCUG	3478	CAGCCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGCCG	22599
133	AGAGCCGG G CUGUCAU	3479	AUGACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGGCUCU	22600
136	GCCGGGCU G UCAUAUUG	3480	CAUAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCGCGC	22601
144	GUCAUAU G CUAAAACG	3481	CGUUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUUGAC	22602
152	GUUAAAC G CGGAUUGC	3482	GCAUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUUAGC	22603
159	CGCGGAU G CCCCGCGU	3483	ACGCGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCGCGC	22604
164	AUUGCCCC G CGUGUUGU	3484	ACAACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCAU	22605
166	UGCCCCGC G UGUUGUCC	3485	GGACACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGGCA	22606
168	CCCCGGCU G UUGUCCUU	3486	AAGGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCGGG	22607
171	CGUGUGUU G UCCUUGAU	3487	AUCAAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGCG	22608
193	UGAAGAGG G CUUUGUUG	3488	CAACAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUUA	22609
198	AGGGCUAU G UUGAGCCU	3489	AGGCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAGCCCU	22610
203	UAUGUUGA G CCUGAUUG	3490	GGAUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACUA	22611
215	GAUCGACG G CAAGGGGC	3491	GCCCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGAUC	22612
222	GGCAAGGG G CCAUAACG	3492	CGUAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCUUGCC	22613
235	UACGAUUU G UGUUGGCU	3493	AGCCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAUCGUA	22614
237	CGAUUUUG G UUGGCUCU	3494	AGAGCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAUUCG	22615
241	UUGUUGUG G CUCUCUUG	3495	CAAGAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACACAA	22616
250	CUCUCUUG G CUCUCUUC	3496	GAAGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGAGAG	22617
252	CUCUUGGC G UUCUCAG	3497	CUGAAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCAAGAG	22618

Table VII

261	UUCUUCAG G UUCACAGC	3498	GCUGUGAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUGAAGAA	22619
268	GGUUACA G CAUUGCU	3499	AGCAAUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGUGAACC	22620
274	CAGCAUUG G CUCCGACC	3500	GGUCGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUUGCUG	22621
286	CGACCCGA G CAGUGCG	3501	CAGCACUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCGGUGUG	22622
289	CCCAGCA G UGUGGAU	3502	AUCCAGCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGCUCGGG	22623
291	CGACAGU G CUGAUCG	3503	CGAUCCAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUGCUCG	22624
308	AUGAGAG G UGUAACA	3504	UGUUCACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUCUCCAU	22625
310	GGAGAGU G UGARACAA	3505	UUUUGUCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACCUCUCC	22626
325	AACAACA G CGAUGAA	3506	UUUCAUCG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGUUUGUU	22627
344	CCUUCUGA G UUUUAAGA	3507	UCUAAAAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCAGAAAG	22628
374	CUUGACCA G UGCUAUCA	3508	UGAUAGCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGGUCAAG	22629
376	UGACCAU G CUUCAAU	3509	AUGAUAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUGGUCA	22630
387	AUCAAUC G CGGACUC	3510	GAGUUCOG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGAUUGAU	22631
392	UCGGCGGA G CUCAAAC	3511	GUUUUGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCGCCGA	22632
430	CCGGAAU G CAGUCAUG	3512	CAUACUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUUCGCG	22633
433	GAUUGCA G UCAUGAU	3513	AAUCAUGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGCAAUUC	22634
443	CAUAAUG G CCUGAUCG	3514	CGAUACAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAUCAUG	22635
451	GCUUGAUC G CCAGCGUA	3515	UACGCUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GAUCAGGC	22636
455	GAUGGCCA G CGUAGGAG	3516	CUCCUACG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGGCGAUC	22637
457	UCGGCAGC G UAGGAGCA	3517	UGUUCUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCUGGCCA	22638
463	GCGUAGCA G CAGUUAAC	3518	GGUAACUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCUACGC	22639
466	UAGGAGCA G UUACCCUC	3519	GAGGUUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGCUCUA	22640
493	AAGGGAAG G UGAUGAUC	3520	CAUCAUCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUUCCCUU	22641
505	UGAUGACG G UAAUUGCU	3521	AGCAUUUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGUCAUCA	22642
511	CGUUAUU G CUACUGAC	3522	GUCAUGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUUUACCG	22643
520	CUACUGAC G UCACAGAU	3523	AUCUGUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUCAUAG	22644
529	UCACAGAU G UCAUCACG	3524	CGUGAUGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCUGUGA	22645
547	UUCCAAACA G CUGCUGGA	3525	UCCAGCAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGUUGGAA	22646
550	CAACAGCU G CUGGAAAG	3526	CUUUCACG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCUGUUG	22647
566	GAACCUAU G CAUUGUCA	3527	UGACAAUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUAGGUUC	22648
571	UAUGCAUU G UCAGAGCA	3528	UGUCUGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUGCAUA	22649
577	UUGUCAGA G CAUUGGAU	3529	AUCCAUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCUGACAA	22650
586	CAUUGGAU G UGGGAUAC	3530	GUAUCCCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCCAUG	22651
597	GGAUACAU G UGCGAUGA	3531	UCAUCGCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUGUAUCC	22652
599	AUACAUGU G CGAUGAUA	3532	UAUCAUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACAUGUAU	22653
623	UUAUGAAU G CCAGUGC	3533	GCATUGGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUUCAUAA	22654
628	AAUGCCCA G UGUGUGC	3534	CGACAGCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGGGCAU	22655
630	UGCCACAGU G CUGUCGGC	3535	GCCACAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUGGGCA	22656
633	CCAGUGCU G UCUGCUGG	3536	CCAGCCGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCACUGG	22657
637	UGCUGUCG G CUGGUAAU	3537	AUUAACAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGACAGCA	22658

Table VII

641	GUCGGCUG G UAUUAUC	3538	GAUCAUUA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CAGCCGAC	22659
665	CAUGGACU G UUGUGCA	3539	UGACACAA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG AGUCGAGC	22660
669	CAGUUGU G UGCACAA	3540	UUUGUGCA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CAACAGUC	22661
671	CUGUUGU G CACAAAGU	3541	ACUUUGUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG ACCAACAG	22662
678	UGCACAA G UCAGCAGU	3542	ACUGCUGA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UUUGUGCA	22663
682	CAAGUCA G CAGUCUAC	3543	GUAGACUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UGACUUUG	22664
685	AGUCAGCA G UCACGUC	3544	GACGUGA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UGACUUUG	22665
691	CAGUCUAC G UCAGGUU	3545	AUACCUGA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG GUAGACUG	22666
696	UACGUCAG G UAUUGAAG	3546	CUUCCAUA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CUGACGUA	22667
707	UGGAAGAU G CACCAAGA	3547	UCUUGGUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG AUCUUCCA	22668
719	CAAGACAC G CCACUCAA	3548	UUGAGUGG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG GUGUCUUG	22669
731	CUCAAGAC G CAGUCGGA	3549	UCCGACUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG GUCUUGAG	22670
734	AAGACGCA G UCGAGGU	3550	ACUCCGGA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UGCGUCUU	22671
741	AGUGGGAG G UCACUGAC	3551	GUACAGUA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CUCCGACU	22672
751	CACUGACA G UGCAGACA	3552	UGUCUGCA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UGUCAGUG	22673
753	CUGACAGU G CAGACACA	3553	UGUGUCUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG ACUGUCAG	22674
770	CGAGAAA G CACUCUAG	3554	CUAGAGUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UUUCUCCG	22675
778	GCACUCUA G CGAACAG	3555	CUUGUUCG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UAGAGUGC	22676
793	AGAAGGGG G CUUGGAUG	3556	CAUCCAAG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CCCUUCU	22677
806	GAUGGACA G CACCAAGG	3557	CCUUGGUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UGUCCAU	22678
814	GCACCAAG G CCACUAGG	3558	CUUUGUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CUUGUGGC	22679
822	GCACCAAG G UUAUUGGU	3559	ACCAAUUA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CUUGUGGC	22680
829	GUUUAUUG G URAAAACA	3560	UGUUUAUA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CAAAUACC	22681
868	CUGGAUUA G CCCUGGUG	3561	CACACGGG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG AUUCCAG	22682
874	AUGCCUUG G UGCAGCC	3562	GGUUGCCA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CAGGGCAU	22683
877	CCUUGGUG G CAGCGUC	3563	GACGGCUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CACCAGGG	22684
880	UGGUGGCA G CCGUCAU	3564	AUAGACGG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UGCCACCA	22685
883	UGGACGCC G UCAUUGGU	3565	ACCAUUGA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG GGCUGCCA	22686
890	CGUCAUUG G UUGGAUGC	3566	GCAUCCAA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CAUUGACG	22687
897	GGUUGAU G CUUGGGAG	3567	CUCCCAAG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG AUCCAACC	22688
905	GCUUGGGA G CAACACCA	3568	UGGUGUUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UCCCAAGC	22689
915	AACACCAU G CAGAGAGU	3569	ACUCUCUG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG AUGGUGUU	22690
922	UGCAGAGA G UUGUGUUU	3570	AAACACAA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG UCUCUGCA	22691
925	AGAGAGUU G UGUUUGUC	3571	GACAAACA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG AACUCUCU	22692
927	AGAGUUGU G UUGUGUGU	3572	ACGACAAA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG ACAACUCU	22693
931	UUGUGUUU G UCGUGCUA	3573	UAGCACGA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG AAACACAA	22694
934	UGUUUGUC G UGCUAUUG	3574	CAAUAGCA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG GACAAACA	22695
936	UUUGUCGU G CUUUAUGU	3575	AGCAUAG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG ACGACAAA	22696
942	UUGCUAUU G CUUUGUGU	3576	ACCAAAAG GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG AAUAGCAC	22697
949	UGCUUUUG G UGGCCCCA	3577	UGGGGCCA GGA GCGUUUAGGC UCCUUCUACAGGA GCGUUUAGGC UCCGGG CAAAAGCA	22698

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952	UUUUGGUG G CCGCAGCU	3578	AGCUGGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAAAA	22699
958	UGGCCCCA G CUUACAGC	3579	GCUGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGGCCA	22700
965	AGCUUACA G CUUCAACU	3580	AGUUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAGCU	22701
974	CUUCAACU G CCUUGGAA	3581	UUCCAAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGAAG	22702
986	UGGAAUGA G CAACAGAG	3582	CUCUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCCCA	22703
1009	UGGAAGGA G UGUCUGGA	3583	UCAGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUDCA	22704
1011	GAGGAGU G UCUGGAGC	3584	GCUCAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUUC	22705
1018	UGUCUGA G CAACUUGG	3585	CCAUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGACA	22706
1027	CAACUUG G UGGAUUG	3586	CAAAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGUUG	22707
1036	UGGAUUG G UUCUCGAA	3587	UUCGAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAUCCA	22708
1046	UCUCGAAG G CGACAGCU	3588	AGCUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCGAGA	22709
1052	AGGCGACA G CUGCGUGA	3589	UCAGCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCGCUU	22710
1055	CGACAGCU G CGUGACUA	3590	UAGUCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUGUCG	22711
1057	ACAGCUGC G UGACUAUC	3591	GAUAGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGCUGU	22712
1068	ACUAUCAU G UCUAAGGA	3592	UCCUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUAGU	22713
1080	AAGGACAA G CUUACCAU	3593	AUGGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUCCUU	22714
1093	CCAUCCAU G UGAAGAUG	3594	CAUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAUGG	22715
1114	AUAUGGAG G CGGUCAC	3595	GUUGACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCAUU	22716
1117	UGGAGGCG G UCAACCCUG	3596	CAGUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCUCCA	22717
1126	UCAACCCUG G CAGAGGUC	3597	GACCUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUUGA	22718
1132	UGGCAGAG G UCGCGAGU	3598	ACUGCGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUGCCA	22719
1136	AGAGGUCC G CAGUUAU	3599	AAUAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGACCCUCU	22720
1139	GGUCCGCA G UUAUUGCU	3600	AGCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGGACC	22721
1145	CAGUUAU G CUAUUGG	3601	CCAAUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAACUG	22722
1153	GUUAUUG G CUACCGUC	3602	GACGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUAGC	22723
1159	UGGCUACC G UCAGCGAU	3603	AUGCGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUAGCCA	22724
1163	UACCGUCA G CGAUCUCU	3604	AGAGAUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACGGUA	22725
1180	CCACCAA G CUGCGUGC	3605	GCACGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGUGG	22726
1183	CAAAGCU G CGUGCCCG	3606	CGGGCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUUUGG	22727
1185	AAAGCUGC G UGCCCGAC	3607	GUUGGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGCUUU	22728
1187	AGCUGCGU G CCGGACCA	3608	UGGUCGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCAGCU	22729
1204	UGGGAGAA G CUCACAU	3609	AUUGUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCCCA	22730
1220	UGACAAAC G UGUGACC	3610	GGUCAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUGUCA	22731
1222	ACAAACGU G CUGACCCA	3611	UGGGUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGUUGUG	22732
1231	CUGACCCA G CUUUGUG	3612	CACAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUCAG	22733
1237	CAGCUUUU G UGUGCAGA	3613	UUGCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAGCUG	22734
1239	GCUUUGU G UGCAGACA	3614	UGUCUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAAAGC	22735
1241	UUUUGUG G CAGACAAAG	3615	CUUGUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACAAA	22736
1252	GACAAGGA G UGGUGGAC	3616	GUCCACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUGUC	22737
1255	AAGGAGUG G UGGACAGG	3617	CCUGUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCCUU	22738

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1265	GGACAGGG G CUGGGGCA	3618	UGCCCCAG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CCCUGUCC	22739
1271	GGGCUUG G CAACGGCU	3619	AGCGUUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CCCAGCCC	22740
1277	GGGCAAC G CUGGGGAU	3620	AUCGGAG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CGUUGCCC	22741
1280	CAACGGCU G CGGAUUAU	3621	AUAAUCCG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AGCCGUUG	22742
1292	AUUAUUG G CAAAGGAA	3622	UUCUUUUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CAAAUAAU	22743
1301	CAAAGGAA G CAUUGACA	3623	UGUCAAUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UUCUUUUG	22744
1313	UGACACAU G CGCCAAAU	3624	AUUUGGCG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AUGUGUCA	22745
1315	ACACAUGC G CCAAUUUU	3625	AAAUUUGG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG GCAUGUGU	22746
1324	CCAAAUUU G CCUGUCUCU	3626	AGAGCAGG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AAAUUUGG	22747
1328	AUUUGCCU G CUCUACCA	3627	UGGUAGAG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AGGCAAAU	22748
1339	CUACCAAG G CAAUAGGA	3628	UCCUAUUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CUUGGUAG	22749
1374	AAUAUCAA G UACGAAGU	3629	ACUUCGUA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UUGAUUUU	22750
1381	AGUACGAA G UGGCCAUU	3630	AAUGGCCA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UUCGUACU	22751
1384	ACGAAGUG G CCAUUUUU	3631	AAAAUUGG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CACUUCGU	22752
1393	CCAUUUUU G UCCAUGGA	3632	UCCAUGGA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AAAAUUGG	22753
1411	CAACUACU G UGAGUUG	3633	CGACUCCA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AGUAGUUG	22754
1416	ACUUGGGA G UCGACCGG	3634	CCGUGCGA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UCCACAGU	22755
1419	GUGGAGUC G CACGGAAA	3635	UUUCCGUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG GACUCCAC	22756
1441	CCACACAG G UUGAGGCC	3636	GGCUCCAA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CUGUGUGG	22757
1447	AGUUUGGA G CCACUCAG	3637	CUGAGUGG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UCCACACU	22758
1456	CCACUUGA G CAGGAGGA	3638	UCUCCUUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CUGAGUGG	22759
1469	GAGAUUCA G CAUCACUC	3639	GAGUGAUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UGAAUUCU	22760
1480	UCACUCCU G CGGCGCCU	3640	AGGCGCCG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AGGAGUGA	22761
1483	CUCCUGCG G CGCUCUCA	3641	UGAAGGCG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CGCAGGAG	22762
1485	CCUGCGGC G CCUUCUAU	3642	UAUGAAGG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG GCCGCAGG	22763
1503	ACACUAAA G CUUGGAGA	3643	UCUCCAAG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UUUAGUGU	22764
1522	AUGGAGAG G UGACAGUG	3644	CACUGUCA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CUCUCCAU	22765
1528	AGGUGACA G UGACUGU	3645	ACAGUCCA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UGUACACU	22766
1535	AGUGGACU G UGACCCAC	3646	GUGGUUCA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AGUCCACU	22767
1545	GAACCCAG G UCAGGGAU	3647	AUCCCUGA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CGUGGUUC	22768
1564	ACACCAAU G CAUACUAC	3648	GUAGUAUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AUUGGUGU	22769
1573	CAUACUAC G UGUAUGACU	3649	AGUCAUCA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG GUAGUAUG	22770
1582	UGAUGACU G UUGGAACA	3650	UGUUCCAA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG AGUCAUCA	22771
1596	ACAAAGAC G UUCUUGGU	3651	ACCAAGAA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG GUCUUGU	22772
1603	CGUUCUUG G UCCAUUCU	3652	ACCAUGGA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CAAGAACG	22773
1610	GGUCCAUC G UGAGUGGU	3653	ACCAUCA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG GAUGAAC	22774
1614	CGUGUGA G UGUUUCAU	3654	UGAACCAA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UCACGAGU	22775
1617	CAUGAGUG G UUAUGGA	3655	UCCAAGAA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG CACUCACG	22776
1643	CCUUGGA G CAGUGCUG	3656	CAGCACUG GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UCCAAGGG	22777
1646	UUGGAGCA G UGUGGAA	3657	UUCACAGCA GGA GCGUUUAGGC	UCCCUUCAAGGA GCGUUUAGGC	UCCGGG UGCUCCAA	22778

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1648	GGAGCAGU G CUGGAAGU	3658	ACUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGCUCC	22779
1655	UGCUGAA G UACUGUGU	3659	ACACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACGA	22780
1660	GAAGUACU G UGUGAGG	3660	CCUCCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUACUUC	22781
1662	AGUACUCU G UGGAGGA	3661	UUCUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUACU	22782
1680	AGAGAGAC G UUAUUGGA	3662	UCCAUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUCUCU	22783
1689	UUAUUGGA G UUUGAGGA	3663	UCCUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUUAA	22784
1705	AACACAC G CCACGAAG	3664	CUUCUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUGGUU	22785
1713	GCCAGAA G CAGUCUGU	3665	ACAGACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUGGC	22786
1716	ACGAAGCA G UCUGUGAU	3666	AUCACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUCUGU	22787
1720	AGCAGUCU G UGAUAGCA	3667	UGCUAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACUGCU	22788
1726	CUGUGAU G CAUUGGC	3668	GCCCAAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUACAG	22789
1733	AGCAUUG G CUCACNAG	3669	CUUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUAGCU	22790
1747	AAGAGGA G CUCUGCAU	3670	AUGCAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCUCU	22791
1752	GGAGUCU G CAUCAAGC	3671	GCUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCUCC	22792
1759	UGCAUCA G CUUUGGCU	3672	AGCCAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAUGCA	22793
1765	AAGCUUG G CUGAGGCC	3673	GGUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCUU	22794
1771	UGGUGGA G CCAUUCU	3674	AGGAUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGCCA	22795
1780	CCAUCU G UGGAUUU	3675	AAAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAUUGG	22796
1793	AUUUCA G CAACACUG	3676	CAGUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAAAUA	22797
1801	GCAACACU G UCAAGUUG	3677	CAACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGUUGC	22798
1806	ACUGCAA G UGAGGUC	3678	GACGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACAGU	22799
1812	AGUGGAC G UCGGUCA	3679	UGACCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCAACU	22800
1817	GACGUCG G UCAUUUGA	3680	UCAAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGACGUC	22801
1827	CAUUUGA G UGUAGAGU	3681	ACUCUACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAAAUG	22802
1829	UUUAGAU G UAGAGUGA	3682	UCACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCAAA	22803
1834	AGUGAGA G UGAAGU	3683	CAUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUACACU	22804
1851	GAUUAUU G CAGUUGAA	3684	UUCACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUAUUU	22805
1854	AAAUUGCA G UUGAAGG	3685	CCUUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAAUUU	22806
1874	AACCUAG G UGUCUGU	3686	AACAGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAGGUU	22807
1876	CCUUGGC G UCUGUUA	3687	UGAACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAUAGG	22808
1880	UGGCGUCU G UUCAAGG	3688	CCUUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACGCCA	22809
1888	GUUCAAAG G CUUCAAAG	3689	CUUGAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGAAC	22810
1896	GUUUCAA G UUUCUUG	3690	CCAAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAAAGC	22811
1912	GGACUCC G CAGACACA	3691	UGUGUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAAGUCC	22812
1922	AGACACAG G UCACGGCA	3692	UGCGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUGUCU	22813
1928	AGGUCACG G CACUGUG	3693	CCACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGACCU	22814
1933	ACGGCACU G UGUUGUUG	3694	CAACACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGCCGU	22815
1936	CACUGUG G UGUUGGAA	3695	UUUACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAGUC	22816
1938	ACUGGUGU G UUGGAUU	3696	AUUCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCACAGU	22817
1947	UUGGAUU G CAGUACAC	3697	GUGUACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCCAA	22818

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1950	GAUUGCA G UACACUGG	3698	CCAGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAAUUC	22819
1958	GUACACUG G CACGGAUG	3699	CAUCCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGUAC	22820
1973	UGGACCUU G CAAAGUUC	3700	GRACUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGUCCA	22821
1978	CUUGCAA G UUCUAUC	3701	GAUAGGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCAAG	22822
1989	CUUAUCUC G UCAGUGGC	3702	GCACUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAUAGG	22823
1993	UCUCGUCA G UGGCUUCA	3703	UGAAGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACGAGA	22824
1996	CGUCAGUG G CUUCAUUG	3704	CAUAGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGACG	22825
2016	GACCUAAC G CCAGUGGG	3705	CCACUUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUAGGUC	22826
2020	UAACGCCA G UGGGCAGA	3706	UCUGCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCGUUA	22827
2024	GCCAGUGG G CAGAUUGG	3707	CCAAUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACUGGC	22828
2032	GCAGAUUG G UCACUGUC	3708	GRACUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUGC	22829
2038	UGGUCACU G UCACACCU	3709	AGGUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGACCA	22830
2050	ACCCUUU G UUCAGUG	3710	CACUGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAGGUU	22831
2056	UUGUUUA G UGGCCACG	3711	CGUGGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAACAA	22832
2059	UUUCAGUG G CCACGGCC	3712	GGCCGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGAAA	22833
2065	UGGCCACG G CCAAGGCU	3713	AGGUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGGCCA	22834
2071	CGGCCAAC G CUAAGGUC	3714	GACCUUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGGCCG	22835
2077	ACGCUAAG G UCUGAUU	3715	AAUCAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAGGCU	22836
2119	CAUACADA G UGGUGGGC	3716	GGCCACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUGUAUG	22837
2122	ACAUAUG G UGGGCAGA	3717	UCUGCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUAUGU	22838
2126	AGUGGUG G CAGAGGAG	3718	UUCUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACACU	22839
2157	CACCAUG G CACAAGUC	3719	GACUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGGUG	22840
2163	UGGCACAA G UCUGGAAG	3720	CUUCCAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGCCA	22841
2171	GUUCUGAA G CAGCAUUG	3721	CAUUGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGAGAC	22842
2174	UGGAAGCA G CAUUGGCA	3722	UGCCAAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUCCA	22843
2180	CAGCAUUG G CAAAGCCU	3723	AGGCUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGCUG	22844
2185	UUGGCCAA G CCUUUACA	3724	UGUAAAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUGCCAA	22845
2209	UCAAGGA G CGCAGAGA	3725	UCUCUGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUUGA	22846
2211	AAAGGAGC G CAGAGACU	3726	AGUCUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCUUUU	22847
2221	AGAGACUA G CGCUCUA	3727	UAGAGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUCUCU	22848
2224	GACUAGCC G CUCUAGGA	3728	UCCUAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUAGUC	22849
2239	GAGACACA G CUUGGGAC	3729	GUCCCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGUCUC	22850
2257	UUGGAUCA G UUGGAGGG	3730	CCUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUCCAA	22851
2266	UUGGAGGG G UGUUCACC	3731	GGUGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUCUCAA	22852
2268	GGAGGGGU G UUCACCCUC	3732	GAGUGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCCUCUC	22853
2278	UACCCUA G UUGGGAG	3733	CUUCCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGGUGA	22854
2287	UUGGGAAG G CUGUCCAU	3734	AUGGACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCCAA	22855
2290	GGAAGGCU G UCCAUCAA	3735	UUGACUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCUCC	22856
2299	UCCAUCAA G UGUUCGGA	3736	UCCGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAUGGA	22857
2301	CAUCAAGU G UUCGGAGG	3737	CCUCCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUGAUG	22858

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2311	UCGGAGGA G CAUUCGCG	3738	GCGGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCCGA	22859
2318	AGCAUCC G CUCACUGU	3739	ACAGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAUUGCU	22860
2325	CGCUACU G UUCGGAGG	3740	CCUCCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGAGCG	22861
2333	GUUCGGAG G UCCGUCCU	3741	AGGACAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCGAAC	22862
2337	GGAGGCAU G UCCUGGAU	3742	AUCCAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGCCUCC	22863
2349	UGGAUAC G CAAGGAU	3743	AAUCCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUAUCCA	22864
2358	CAAGGAU G CUGGGGCG	3744	GCCCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCUUG	22865
2365	UGCUGGG G CUCUCCUG	3745	CAGGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCAGCA	22866
2373	GCUCUCU G UUGUGGAU	3746	AUCCACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAGAGC	22867
2376	CUCCUGU G UGGAUGGG	3747	CCCAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGGAG	22868
2384	GUGGAUGG G CAUCAAUG	3748	CAUAGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCCAC	22869
2392	GCAUCAU G CUGUGAU	3749	AUCAAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGAUGC	22870
2396	CAUGCUC G UGAUAGGU	3750	ACCUAUC A GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCAUUG	22871
2403	CGUGAUG G UCCAUAGC	3751	GCUAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUACACG	22872
2410	GGUCCAUA G CUCUCACG	3752	CGUGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUGGACC	22873
2418	GCUCUCAC G UUCUCGCG	3753	CGGAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAGAGC	22874
2425	CGUUCUC G CAGUUGGA	3754	UCCAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAAACG	22875
2428	UUCUGCA G UUGGAGGA	3755	UCCUCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCGAGAA	22876
2437	UUGGAGGA G UUCUGCUC	3756	GAGCAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCCAA	22877
2442	GGAGUUCU G CUCUCCU	3757	AGGAAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAACUCC	22878
2445	UCCGUCC G UGAACGUG	3758	CAGGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGAGAGGA	22879
2461	CCGUGAAC G UGCACGCU	3759	AGGUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCACGG	22880
2463	GUGAACGU G CACGCUGA	3760	UCAGCGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGUUCAC	22881
2467	ACGUGCAC G CUGACACU	3761	AGUGUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCACGU	22882
2478	GACACUGG G UGUGCCAU	3762	AUGGCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUGUC	22883
2480	CACUGGU G UGCCAUAG	3763	CUAUGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCCAGUG	22884
2482	CUGGUGU G CCAUAGAC	3764	GUCUAUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACCCAG	22885
2495	AGACAUCA G CCGGCAAG	3765	CUUGCCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUGUCU	22886
2499	AUCGCCG G CAAGAGCU	3766	AGCUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCUGAU	22887
2505	CGGCAGA G CUGAGAU	3767	CAUCUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGCCG	22888
2513	GCUGAGAU G UGGAAGUG	3768	CACUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCAGC	22889
2519	AUGUGAA G UGGAGUGU	3769	ACACUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACAU	22890
2524	GAAGUGGA G UGUCAUA	3770	UAUGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUUC	22891
2526	AGUGAGU G UUCAUCA	3771	UGUAUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCACU	22892
2542	ACAUGAU G UGGAGGCU	3772	AGCCUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUUGU	22893
2548	AUGUGAG G CUGGGAUG	3773	CAUCCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCACAU	22894
2562	AUGGACCG G UACRAGUA	3774	UACUUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUCCAU	22895
2568	CGGUACAA G UAUACCC	3775	GGGUAAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUACCG	22896
2583	CCUGAAC G CCACAGG	3776	CCUUGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUCAGG	22897
2591	GCCACAAG G CCUAGCCA	3777	UGGCUAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGUGGC	22898

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2596	AAGGCCUA G CCAAGAU	3778	GAUCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAGGCCUU	22899
2614	UUCAGAA G CUAUAAG	3779	CUUAUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCUGAA	22900
2629	AGGAAGGA G UGUGCGGU	3780	ACCGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCCUUCU	22901
2631	GAAGAGU G UGCGUCU	3781	AGACCGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACUCUUC	22902
2633	AGGAGUG G CGUCUAC	3782	GUAGACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACACUCCU	22903
2636	AGUGUGG G UCACGAU	3783	AUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGCACU	22904
2647	UACGAUA G UUUCAGA	3784	UCUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGAUCUA	22905
2661	AGACUGA G CAUCAAU	3785	AUUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCCAGUCU	22906
2670	CAUCAAU G UGGGAAG	3786	GUUCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUUUGAUG	22907
2677	UGUGGGA G CAGUGAAG	3787	CUUCACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCCACAC	22908
2680	GGGAAGCA G UGAAGGAC	3788	GUCCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGUUCCU	22909
2691	AAGGACA G CUGAACAC	3789	GUUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGUUCCU	22910
2717	GGAGAUG G UGUGGACC	3790	GUUCCACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUUCUCC	22911
2719	AGAAUGU G UGGACCUU	3791	AAGGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACCAUUCU	22912
2729	GGACCUA G UGUCGUGG	3792	CCACGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAAGGUCC	22913
2731	ACCUAUG G UGUGUGGU	3793	AACACGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACUAAGGU	22914
2734	UUAGUUG G UGUUGAG	3794	CUAACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GACACUAA	22915
2737	GUGUCUG G UUGAGAA	3795	UUUCUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CACGACAC	22916
2757	GAGGAAU G UACAAGUC	3796	GACUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUUCCUC	22917
2763	AUGAACAA G UACGACC	3797	GUUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGUUACAU	22918
2767	ACAUAAC G CACCUAAA	3798	UUUUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGACUUGU	22919
2777	ACCUAAG G CUCACCG	3799	CGUGAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUTUAGGU	22920
2785	GCCUCAC G CCACCAG	3800	CGUGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGUGAGC	22921
2810	GGAAUUG G CUGGAAGG	3801	CCUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUUUCC	22922
2818	GUUGAAG G CUUGGGA	3802	UCCCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUUCCAGC	22923
2831	GGGAAGA G UAUUUAU	3803	AUAAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCUIUCC	22924
2842	UUUAUUU G CACCAGAA	3804	UUCUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAUAAAA	22925
2854	CAGAACU G CCAACAC	3805	GUUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAGUUCUG	22926
2869	ACACUUU G UGUUGAU	3806	AUCAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAAGUGU	22927
2872	CCUUGUG G UGAUGGU	3807	ACCAUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CACAAAGG	22928
2879	GUUGAUG G UCCGGAGA	3808	UUCCCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUCAACC	22929
2897	CAAGGAU G UCCGACUC	3809	GAGUCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUUCCUUG	22930
2912	UCAGAAU G CGCUUGA	3810	UCCAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAUUCUGA	22931
2914	AGAAUCG G CUUGGAU	3811	AUCCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GCGAUUCU	22932
2924	UUGGAUA G CUUAGAAG	3812	CUUCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAUUCCAA	22933
2932	GUUAGAA G UGGAGAU	3813	AUCCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCUAGC	22934
2951	UGGAUUU G UCUCACCA	3814	UGGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUAUCCA	22935
2960	UCUCACA G CACUCGGA	3815	UCCGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGGUGAGA	22936
2970	ACUCGAU G UUCUGAA	3816	UUCAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUCCGAGU	22937
2980	UCCUGAAG G UCAGAGAG	3817	CUUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUUCAGGA	22938

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2290	CAGAGAG G CAACACAA	3818	UUGUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUCUG	22939
3005	AACUGAAU G UGACUUGA	3819	UCGAGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCAGUU	22940
3028	UUGGAAG G CUGUCAAG	3820	CUUGACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUUCCAA	22941
3031	GAACGGCU G UCAAGAAC	3821	GUUCUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGUUC	22942
3046	ACAACUUG G CGAUCCAC	3822	GUGGAUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGUUGU	22943
3056	GAUCCACA G UGACCUUG	3823	ACAGGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGAUC	22944
3063	AGUGACCU G UCCUAUUG	3824	CAAUAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUACAU	22945
3080	GAUUGAAA G CAGGCCUA	3825	UGAGCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCAAUC	22946
3084	GAAGCAG G CUGAAUGA	3826	UCAUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCUUUC	22947
3096	AUUGAUAC G UGGAAGCU	3827	AGCUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUAUAUU	22948
3102	ACUGGAA G CUUGAAAG	3828	CUUUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACACU	22949
3112	UUGAAAG G CAGUUCUG	3829	CAGAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUUCAA	22950
3115	AAAGGCA G UUCUGGU	3830	ACCCAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCUUUU	22951
3122	AGUUCUG G UGAAGUCA	3831	UGACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGAACU	22952
3127	UGGUGAA G UCAAAUCA	3832	UGAUUUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACCCA	22953
3137	CAAUCAU G UACGUGGC	3833	GCCACGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUUUG	22954
3141	UCAUGUAC G UGGCCUGA	3834	UCAGGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACAUGA	22955
3144	UGAUGAG G CCUGAGAC	3835	GUCAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUACA	22956
3153	CCUGAGC G CAUACCUU	3836	AAGGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUCAGG	22957
3162	CAUACCUU G UGGGCGGA	3837	UCGCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGUUUG	22958
3167	CUUGUGGG G CGAUGGAA	3838	UUCCAUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCACAAG	22959
3185	CCUUGAG G UGACUUGA	3839	UCAAGUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUAGG	22960
3202	UAAUACCA G UCACACUG	3840	CAGUGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUAUUA	22961
3211	UCACACUG G CGGACCA	3841	UGGUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGUGA	22962
3224	ACCACGAA G CAAUCACA	3842	UGUGAUTG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUGGU	22963
3246	AGACUUG G UACAAGAC	3843	GUCUUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGGUCU	22964
3266	AAACGAG G CCCAUGGG	3844	CCCAUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGGUUU	22965
3281	GGACGAG G CCGGUUAG	3845	CUACCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCGUUC	22966
3286	AAGGCCG G UAGAGAUU	3846	AAUCUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGGCCUU	22967
3308	CGAUUACU G CCCAGGAA	3847	UUCUUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAAUCG	22968
3322	GAACUAG G UCACCCUG	3848	CAGGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUAGUUC	22969
3332	CACCCUGA G UGAGAGCU	3849	AGUCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGGGUG	22970
3338	GAGUGAG G CUGCGGAC	3850	GUCCGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCACUC	22971
3341	UGAGAGCU G CGGACACC	3851	GGUGUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCUCA	22972
3350	CGGACACC G UGGACCUUG	3852	CAGGUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCCCG	22973
3358	GUGGACU G CCACUGGC	3853	GCGAGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUCCAC	22974
3365	UGCCACUC G CACCACCA	3854	UGGUGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGUGGCA	22975
3380	CACAGAG G CGGAAGU	3855	ACUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUGUG	22976
3387	AGCGAAA G UUGAUUAC	3856	GUUAUAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCGCU	22977
3402	ACAGAUU G UGCUGCAG	3857	CUGCAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUCUGU	22978

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3404	AGAUUGGU G CUGCAGGA	3858	UCCUGCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAAUCU	22979
3407	UUGUGUCU G CAGAGCU	3859	AGUUCUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCACCAC	22980
3413	CUGCAGGA G CUGCACC	3860	AGUUCUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UCCUGCAG	22981
3416	CAGGAGCU G CACCUUAC	3861	GUAGGUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGUUCUUG	22982
3432	CCACCACU G CCGUACCA	3862	UGUAGUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGUGGUGG	22983
3434	ACCACUGC G CUACCAA	3863	UUUGUAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GCGUGGU	22984
3449	AACUGACA G CGGUGUU	3864	AACAGCG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCAGUU	22985
3452	UGACAGCG G CUGUUGGU	3865	ACCAACG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCGUGUCA	22986
3455	CAGCGGCU G UUGUUAUG	3866	CAUACCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCGGUG	22987
3459	GGCUGUG G UAUGUAU	3867	AUACCAU GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAACAGCC	22988
3464	UUGUUAUG G UAUGGAGA	3868	UCUCAUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAUACCAA	22989
3505	AGACCCUC G UGCAGUCA	3869	UGACUGCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GAGGGUCU	22990
3507	ACCUCUGU G CAGUCACA	3870	UGUACUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACGAGGUU	22991
3510	CUUGUGCA G UCACAAGU	3871	ACUUGUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGACGAG	22992
3517	AGUCACAA G UGAUUGCU	3872	AGCAUUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UUGUGACU	22993
3523	AAGUGAAU G CUUAUAU	3873	AUUAUAU GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUUCACUU	22994
3532	CUUAUAU G CUGAUAUG	3874	CAUAUCAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUUAUAAG	22995
3555	CCUUUUA G UUGGGCCU	3875	AGGCCAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGAAAAGG	22996
3560	UCAGUUG G CCUUCUGG	3876	CCAGAAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCAACUGA	22997
3568	GCCUUCUG G UCGUGUUC	3877	GAACACA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAGAAAGC	22998
3571	UUUUGGUC G UGUUCUUG	3878	CAAGAACA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GACCAGAA	22999
3573	CUGGUGU G UUCUUGGC	3879	GCAGAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGCACCAG	23000
3580	UGUUCUG G CCACCCAG	3880	CUGGUGG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAAGAACA	23001
3592	CCCAGGAG G UCCUUCGC	3881	GCAGAAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUCCUGGG	23002
3599	GGUCCUUC G CAAGAGGU	3882	ACUUCUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GAAAGACC	23003
3606	CGCAAGAG G UGNACAGC	3883	GUUUGCA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CUUUGCG	23004
3613	GGUGGACA G CCAAGAU	3884	GAUCUUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCCACC	23005
3623	CAAGAUCA G CAUGCCAG	3885	CUGCAUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGAUCUUG	23006
3627	AUCAGCAU G CCAGCUAU	3886	AUAGCUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUGCUGAU	23007
3631	GCAUGCCA G CUUAUCUG	3887	CAGUAUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UGGCAUGC	23008
3643	UAUCUAU G CUUGCUA	3888	UAGCAGAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AAUCAGUA	23009
3648	AUUGUCU G CUAGUCCU	3889	AGGACUAG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AGAGCAAU	23010
3652	CUUGCUA G UCCUGGUG	3890	CACACGA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG UAGCAGAG	23011
3658	UAGUCCUG G UGUUUGGG	3891	CCCAACA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CAGGACUA	23012
3660	GUUCUGU G UUGGGGG	3892	CCCCAAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAGGAC	23013
3668	GUUUGGG G CAUUAUUC	3893	AAGUAUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG CCCCAC	23014
3685	ACAUGAU G UGUUACGC	3894	GCUAACA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUCAGUGU	23015
3687	UCUGAUGU G UUAGGCUA	3895	UAGCUAA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG ACAUCAGU	23016
3692	UUGUUAU G CUUAUGUA	3896	UGACUAUG GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG GUACACAC	23017
3697	UAGCUAU G UCAUCUUG	3897	CAAGAUA GGA GCGUUUAGGC UCCUUCAAGGA GCGUUUAGGC UCCGGG AUAGCGUA	23018

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3706	UCAUCUUG G UGAGGGGCA	3898	UGCCCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGAUGA	23019
3712	UGUGGGG G CAGCUUUC	3899	GAAAGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCACCA	23020
3715	UGGGGGCA G CUUUCGCA	3900	UGGGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCCCA	23021
3721	CAGCUUUC G CAGAUCU	3901	AGAUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAAGCUG	23022
3745	GAGGAGAC G UGUUACAC	3902	GUUUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUCUC	23023
3748	GAGACGUG G UACACUUG	3903	CAAGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUCUC	23024
3757	UACACUUG G CGCUCUUG	3904	CAUAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGUGUA	23025
3759	UACUUGG G CUCAUGGC	3905	GCAUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGUG	23026
3766	CGCUCUUG G CGACCUUC	3906	GAAGUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGAGCG	23027
3787	UACAACCA G UGUUUAUG	3907	CAUAAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUGUA	23028
3789	CAACCAGU G UUAUUGGU	3908	ACCAUAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGGUUG	23029
3796	UGUUUAUG G UGGCAUCG	3909	CGAUGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAAACA	23030
3799	UUAUGGUG G CAUCGUUU	3910	AAACGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUAA	23031
3804	GUGGCAUC G UUUUCUAA	3911	UUGAGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGCCAC	23032
3814	UUCUCAAA G CGAGAUGG	3912	CCAUCUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUAGAA	23033
3843	AACAUUUU G UUGAUGUU	3913	AAACUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUGUU	23034
3849	UUGUUAUG G UUGCGGCG	3914	ACCGCCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACAACA	23035
3853	UGAUGUUG G CGGCUGUU	3915	AAACGCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAACA	23036
3856	UGUUGGCG G CUGUUUUC	3916	GAUAAACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAACA	23037
3859	UGGCGGCU G UUUUCUUU	3917	AAAGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGCCA	23038
3874	UUCAAAUG G CUUAUCAC	3918	GUUAUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUUGAA	23039
3886	AUCACGAU G CCGGCCAA	3919	UUGGCGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUGAU	23040
3890	CGAUGCCC G CCAAUUC	3920	GAUUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCAUCG	23041
3900	CAAAUUCU G CUCUGGGA	3921	UCCACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAUUUG	23042
3919	UCCUGAU G UGUUGAAU	3922	AUUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGGA	23043
3921	CCUGAUGU G UUAUUAUC	3923	GAAUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCAGG	23044
3934	AUUCACUG G CGGUAGCU	3924	AGCUACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGAAU	23045
3937	CACUGGCG G UAGCUUGG	3925	CCAAGCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAGUG	23046
3940	UGGCGGUA G CUUGGADG	3926	CAUCCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACCGCCA	23047
3958	UACUGAGA G CCAUAAAC	3927	UGUUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCAGUA	23048
3985	CAUCAAC G UGUUUGUU	3928	AACAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUUGAUG	23049
3988	CAACCGUG G UUGUUCG	3929	CGGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUUUG	23050
3991	ACGUGGUU G UUCGCGUG	3930	CAGCGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACGU	23051
3996	GUUGUCC G CUGCUAGC	3931	GUAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAACAAC	23052
3999	GUUCCGU G UAGCCCUU	3932	AGGCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGAAC	23053
4003	CGCUGCUA G CCCUGCUA	3933	UAGCAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCAGCG	23054
4008	CUAGCCCU G CUAACACC	3934	GGUGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCUAG	23055
4020	ACACCCGG G CUGAGADG	3935	CAUCUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGGUGU	23056
4028	GCUGAGAU G CUUGAAUC	3936	GAUCAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUAGC	23057
4042	AUCUGAU G UGUACAGG	3937	CCUGUACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGAU	23058

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4044	CUGGAUGU G UACAGGAU	3938	AUCCUGUA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCGAG	23059
4056	AGGAUACU G CUGUUGAU	3939	AUCAACAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUAUCCU	23060
4059	AUACUGCU G UUGAUGGU	3940	ACCAUCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAGUAU	23061
4066	UGUUGAUG G UCGGAUA	3941	UAUUCGGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCAACA	23062
4076	CGGAUAG G CAGCUUGA	3942	UCAAGCUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUAUUCCG	23063
4079	AUAGGCA G CUUGAUCA	3943	UGAUCAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCCUUAU	23064
4100	GAAGAGGA G UGCAGCUG	3944	CAGCUGCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCUUUC	23065
4102	AGAGGAGU G CAGCUGCA	3945	UGCAGCUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCCUCU	23066
4105	GGAGUGCA G CUGCAAAA	3946	UUUUCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCACUCC	23067
4108	GUGCAGCU G CAAAAAAG	3947	CUUUUUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUGCAC	23068
4123	AGAAAGGA G CAAGUCUG	3948	CAGACUUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCUUUCU	23069
4127	AGGAGCAA G UCUGCUAU	3949	AUAGCAGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCUCCU	23070
4131	GCAAGUCU G CUAUGCUU	3950	AAGCAUAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGACUUGC	23071
4136	UCUGCUAU G CUUGGCUC	3951	GAGCCAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAGCAGA	23072
4141	UAUGCUCU G CUCUAGCC	3952	GGCUAGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCAUA	23073
4147	UGGUCUUA G CCUCAACA	3953	UGUUGAGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAAGAGCCA	23074
4180	UGAUCCUUA G CUGCUGGA	3954	UCCAGCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGGAUCA	23075
4183	UCCUUGCU G CUGGACUG	3955	CAGUCCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAAGGA	23076
4195	GACUGAUU G CAUGUGAU	3956	AUCAUUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUCAGUC	23077
4199	GAUUGCAU G UGAUCCCA	3957	UGGGAUCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGCAUUC	23078
4211	UCCCAACC G UAAAGCGG	3958	CGGUUUA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUUGGGA	23079
4217	CCGUAAC G CGAUGGC	3959	GCACUCCG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUUAACG	23080
4224	CGCGAUG G CCCGCAAC	3960	GUUGCGGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCCGCG	23081
4228	GAUGGCC G CAACUGAA	3961	UUCAGUUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGGCCAUC	23082
4237	CAACUGAA G UGAUGACA	3962	UGUACAUA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCAGUUG	23083
4246	UGAUGACA G CUGUCGGC	3963	GCCGACAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUCAUCA	23084
4249	UGACAGCU G UCGGCCUA	3964	UAGGCCGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCUGUCA	23085
4253	AGCUGUCG G CUAUAUGU	3965	ACAUUAGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGACAGCU	23086
4260	GGCCUAAU G UUUGCCAU	3966	AUGGCAAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUAGGCC	23087
4264	UAUUGUUU G CCAUCGUC	3967	GACGAUGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACAUAU	23088
4270	UUGGCAUC G UCGAGGGG	3968	CCCUCCGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUGGCCA	23089
4278	GUCGGAGG G CUGGCAGA	3969	UCUGCCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUCCGAC	23090
4282	GAGGCGU G CAGAGCUU	3970	AAGCUCUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCCUUC	23091
4287	CUGGCAGA G CUUGACAU	3971	AUGUCAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGCCAG	23092
4306	ACUCCAUG G CCAUCCA	3972	UGGAUUGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUGGAGU	23093
4324	UGACUAUC G CGGGCUC	3973	GAGCCCCG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUAGUCA	23094
4329	AUCGCGGG G CUAUGUU	3974	AACAUGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCGCGAU	23095
4335	GGGCUCAU G UUGUCUG	3975	GCAGCAAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAGCCC	23096
4339	UCAUGUUU G CUGCUUUC	3976	GAAAGCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACAUGA	23097
4342	UGUUUGCU G CUUUCGUG	3977	CACGAAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCAACA	23098

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4348	CUGCUUUC G UGAUUUCU	3978	AGAAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAAAGCAG	23099
4374	ACAGAUU G UGGAUUGA	3979	UCAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUCUGU	23100
4390	AGAGAACG G CGGACAUU	3980	AAUUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUUCUCU	23101
4409	CUGGGAAA G UGAUGCAG	3981	CUGCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCCG	23102
4414	AAAGUGAU G CAGAAAUU	3982	AAUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACUUU	23103
4427	AAUUAAG G UCGAGCG	3983	CUCUCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUAUUU	23104
4433	AGGCUCA G CGAAAGAG	3984	CUUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGAGGCU	23105
4441	GCAGAGA G UGAUGUG	3985	CACAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUCGC	23106
4447	GAGUAGU G UCGGCUU	3986	AAGCCGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACUUC	23107
4449	GUUAGUG G CGGCUUGA	3987	UCAAGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUAAAC	23108
4452	GAUGGCG G CUUGAUGA	3988	UCAUCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCACAUC	23109
4476	AACUCCA G CUCAUGAA	3989	UUCAUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAAGUU	23110
4495	AUCCAGGA G CACCUUGG	3990	CCAAGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGAU	23111
4515	AUAUGAU G CUCAGAAU	3991	AUUCUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAUAU	23112
4525	UCAGAAUG G UCUGUCUC	3992	GAGACAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCUGA	23113
4529	AAUGGUCU G UCUCGCGA	3993	UGCGAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACCAUU	23114
4534	UCUGUCUC G CGAUUAGU	3994	ACUUAUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGACAGA	23115
4541	CCGGAUA G UCGGUACA	3995	UGUACGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUUCGCG	23116
4543	CGAUUAGU G CGUACACC	3996	GGUUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUAUCG	23117
4545	AUUAUGC G UACACCCC	3997	GGGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUUAU	23118
4558	CCCCCUG G CAUUCUUG	3998	CAAGAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGGGGG	23119
4566	GCAUUCU G CCCCAGU	3999	ACUGAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAUAUC	23120
4573	UGCCCUCA G UGUUGGA	4000	UCCAACUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGGGCA	23121
4576	CCUCAGUA G UUGGAUUU	4001	AAAUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACUGAGG	23122
4616	GAGAGGAG G CGUGUUGU	4002	ACAACACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUCUC	23123
4618	GAGGAGGC G UGUUGUGG	4003	CCACAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCUCCUC	23124
4620	GGAGGCGU G UGUUGGGA	4004	UCCACACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCCUCC	23125
4623	GGGUGUU G UGGGACAC	4005	GUUUCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACGCC	23126
4647	CCAAAGGA G UACAAAAA	4006	UUUUUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUUGG	23127
4673	GACCACCG G CGUCUACA	4007	UGUAGACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUGGUC	23128
4675	CCACCGGC G UCUCACAG	4008	CCUGUAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGUGG	23129
4694	CAUGACUC G UGGGCUUC	4009	GCAGCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGUCAUG	23130
4698	ACUCUGG G CUGCUCGG	4010	CCGAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACGAGU	23131
4701	CGUGGGCU G CUCGGCAG	4011	CUGCCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCACAG	23132
4706	GCUGCUCG G CAGUUAUC	4012	GAUAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGCAGC	23133
4709	GCUCGGCA G UUAUCAAG	4013	CUUGAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCGAGC	23134
4717	GUUAUCAA G CAGGAGCG	4014	CGCUCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAUAAAC	23135
4723	AAGCAGGA G CGGGCGUG	4015	CACGCCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGCUU	23136
4727	AGGAGCGG G CGUGAUGG	4016	CCAUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCUCCU	23137
4729	GAGCGGC G UGAUGGUU	4017	AACCAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCCGCUC	23138

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4735	GCUGAUG G UUGAAGGU	4018	ACCUCAA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CAUACGC	23139
4742	GGUUAAG G UGUUUCC	4019	GGAAACA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CUUAACC	23140
4744	UUGAAGGU G UUUUCCAC	4020	GUGAAAA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG ACCUCAA	23141
4761	ACCUUUG G CAUACAAC	4021	GUUGAUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CAAAGGU	23142
4777	CAAAAGG G CCGUUUG	4022	CAAGCGG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CUUUUUG	23143
4780	AAGGAGC G CUUUAUG	4023	CAUCAAAG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG GGUCCUU	23144
4790	UUUGAUG G CGGAGAG	4024	CCUCUCCG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG UCAUCAA	23145
4799	CGGAGAG G CCGCUUG	4025	CCAGCGG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CUUCUCC	23146
4802	AGAGGCC G CCUGACC	4026	GUUCAGG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG GGGCCUCU	23147
4820	AUACUGG G CAGUUA	4027	UGACACUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CCAGUAU	23148
4823	CUGGGCA G UGUCAAG	4028	CCUUGACA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG UGCCCCAG	23149
4825	GGGCAGU G UCAAGGAG	4029	CUCCUUGA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG ACUGCCCC	23150
4844	UCGACUUU G UUACGGAG	4030	CUCCUUA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG AAAGUGA	23151
4866	UGGAUUU G CAGCACAA	4031	UUGUGUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG AUUUUCCA	23152
4869	AAUUGCA G CACAAGUG	4032	CACUUGUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG UGCAUUU	23153
4875	CAGCACAA G UGGAACGG	4033	CCGUUCCA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG UUGUGCUG	23154
4884	UGGAACGG G CAGGAUGA	4034	UCAUCCUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CCGUCCA	23155
4894	AGGAUGAG G UGCAGAU	4035	CAUCUGCA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CUCAUCCU	23156
4896	GAUGAGGU G CAGAUAU	4036	AUCAUCUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG ACCUCAUC	23157
4906	AGAUAUU G UGUUGAA	4037	UUCACACA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG AAUCAUCU	23158
4909	UGAUUGUG G UGGAACCU	4038	AGUUUCCA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CACAUAU	23159
4919	GGAACUG G CAAGAAC	4039	CGUUCUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CAGUUCU	23160
4927	CAAGAAC G UUAAGAAC	4040	GUUCUUA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG GUUCUUG	23161
4936	UUAAGAAC G UCCAGACG	4041	CGUCUGGA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG GUUCUUA	23162
4954	AACCAAGG G UGUUCAA	4042	UUUGAACA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CCGUGGU	23163
4956	CCAGGGU G UUCAAAAC	4043	GUUUUGAA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG ACCCUGG	23164
4984	AAAUCCGG G CCGUGACU	4044	AGUCACGG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CCGAUUU	23165
4987	UCGGGCC G UGACUUUG	4045	CAAAUGCA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG GGCCCGA	23166
5018	AACAUCAG G CUCACCAA	4046	UUGUGAG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CUGAUGU	23167
5029	CACCAUA G UGGACAAA	4047	UUUGUCCA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG UAUUGGU	23168
5042	CAAAACG G UGAUGUGA	4048	UACAUCA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG GUUUUUG	23169
5047	ACGUUGAU G UGAUUGG	4049	CCCAUUA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG AUCACGU	23170
5055	GUGAUUG G CUUUAUG	4050	CCAAUAG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CCAUAC	23171
5063	GUUUUUG G CAUUGGAG	4051	CUCCAUUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CAUAAAG	23172
5071	GCAUUGA G UCAUUAUG	4052	CAUUAUGA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG UCCAUUG	23173
5079	GUCAUAU G CCCACGG	4053	CCGUUGG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG AUUAUG	23174
5087	GCCCAACG G CUCAUACA	4054	UGUAUAG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG CGUUGGG	23175
5099	AUACAUA G CGCGAUG	4055	CUAUCGC GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG UUAUGAU	23176
5101	ACAUAGC G CGAUAGU	4056	CACUAUG GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG GCUAUGU	23177
5107	GCGCAUA G UGCAGGGU	4057	ACCUUGCA GGA GCGUUAAGG UCCUUAAGGA GCGUUAAGG UCCGG UAUUGGC	23178

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5109	GCGAUGU G CAGGGUGA	4058	UCACCCUG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG ACUAUCGC	23179
5114	AGUGCAGG G UGAAGGA	4059	UCCUUCA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CCUGCACU	23180
5130	AUGGAUGA G CCAAUCCC	4060	GGAUUGG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG UCAUCCAU	23181
5140	CAAUCCCA G CCGGAUUC	4061	GAAUCCG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG UGGGAUUG	23182
5160	CUUGAGU G CUGAGGAA	4062	UUCUCAG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AUCUAGG	23183
5182	AGAUCAU G UACUGGAU	4063	AUCCAGU GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AGUGAUCU	23184
5201	CCAUCCG G CGCGGUA	4064	UACGGCG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CGGGAUGG	23185
5203	AUCCCGG G CCGGUAAA	4065	UUUACCG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG GCCGGGAU	23186
5207	CGCGCGG G UAAACAA	4066	UUGUUUA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CGGCGCGG	23187
5226	AGGAUUC G CCAAGAU	4067	AUCUGUG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AGAUCCU	23188
5245	UCAAGAG G CCAUAAC	4068	GUUAUGG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CUCUUUGA	23189
5269	UGAGAACA G CCGUGCUA	4069	UAGCACG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG UGUUCUCA	23190
5272	GAACAGC G UGCUAGCA	4070	UGCUAGC GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG GGCUGUUC	23191
5274	ACAGCCG G CUAGCAC	4071	GGUCUAG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG ACGCCUGU	23192
5278	CCGUGCU G CACCAAC	4072	GUUUGUG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG UAGCACGG	23193
5290	CAACCAG G UUGUGGU	4073	AGCACAA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CCUGGUG	23194
5293	CCAGGGU G UGGUGGU	4074	AGCAGCA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AACCCUGG	23195
5296	GGGUGUG G CUGCUGAG	4075	CUACAGC GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CACAACCC	23196
5299	UUGUGGU G CUGAGAUG	4076	CAUCUAG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AGCCACAA	23197
5308	CUGAGAUG G CUGAAGCA	4077	UGCUUAG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CAUCUCAG	23198
5314	UGGUGAA G CACUGAGA	4078	UCUACUG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG UUCAGCCA	23199
5328	AGAGGACU G CCAUCCG	4079	CGGAUGG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AGUCCUCU	23200
5337	CCAUCCG G UACAGAC	4080	GUUUGUA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CGGAUGGG	23201
5350	AGACAUCC G CAGUGCCC	4081	GGCACUG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG GGAUGUCU	23202
5353	CAUCCGCA G UGCCGAGA	4082	UCUGGGCA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG UGCGGAUG	23203
5355	UCCGCAGU G CCAAGAGA	4083	UCUCUGG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG ACUGCGGA	23204
5383	AUGAGAU G UUGAUGUC	4084	GACAUCA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AAUCUCAU	23205
5389	UUGUUGAU G UCAUGUGU	4085	ACACAUG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AUCAACAA	23206
5394	GAUGUCAU G UGUCAUGC	4086	GCAUGACA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AUGACAUC	23207
5396	UGUCAUGU G UCAUGCUA	4087	UAGCAUGA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG ACAUGACA	23208
5401	UGUGUCAU G CUACCCUC	4088	GAGGGUAG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AUGACACA	23209
5418	ACCCACAG G CUGAUGUC	4089	GACAUCA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CUGUGGGU	23210
5424	AGGUGAU G UCUCUCA	4090	UGAGGAGA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG ACUGAGCCU	23211
5437	CUCACAGG G UGCCGAAC	4091	GUUCGGCA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CCUGUGAG	23212
5439	CACAGGU G CCGAACUA	4092	UAGUCCG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG ACCCUGUG	23213
5454	UACAACTU G UUCGUGAU	4093	AUCACGA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG AGGUUGUA	23214
5458	ACCUUUC G UGAUGGAU	4094	AUCCAUA GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG GAACAGGU	23215
5470	UGGAUGAG G CUCAUUC	4095	GAAUAGAG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG CUCAUCCA	23216
5488	CCGACCCA G CUAGCAU	4096	AAUGCUAG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG UGGGUCGG	23217
5492	CCCAGCUA G CAUUGCAG	4097	CUGCAUG GGA GCGGUUAGGC	UCCCUUCAGGA GCGGUUAGGC	UCCGGG UAGCUGGG	23218

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5497	CUAGCAUU G CAGCAAGA	4098	UCUUGCUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAUGCUAG	23219
5500	GCAUUGCA G CAAGAGGU	4099	ACCUCUUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGCAUUGC	23220
5507	AGCAGAG G UACAAUUU	4100	AAAUUAA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUUUGCU	23221
5524	CCAAAG G UCGAGCUA	4101	UAGUCGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUUUGUGG	23222
5529	AAGGUCA G CUAGGGGA	4102	UCCCUUAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGACCUU	23223
5539	UAGGGAG G CGGCGGA	4103	UGCCGCG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUCCCUA	23224
5542	GGAGGCG G CGGCAUA	4104	UAUUGCG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CGCUUCC	23225
5545	AGGCGCG G CAUAUUC	4105	GAUAUUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CGCGCCU	23226
5560	UCAUGACA G CCACCCA	4106	UGGGUGG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCAUGA	23227
5573	CCCACAG G CACUUCAG	4107	CUGAUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUGGUGG	23228
5595	UCCACAGA G UCACAUUC	4108	GAUUGGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCUGGAA	23229
5641	CGAUGCA G CUUGAAC	4109	GUUCCAAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGAUCCG	23230
5689	GGAAGAC G UUGGUUU	4110	AAACAAA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CGUCUUC	23231
5694	ACGUUUG G UUGUGCC	4111	GGCAAAA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAACCGU	23232
5698	UUGGUUU G UGCCUAGU	4112	ACUAGCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAACAAA	23233
5700	UGGUUUU G CCUAGUGU	4113	ACACUAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACAACCA	23234
5705	UGUGCUA G UGUCAAGA	4114	UCUUGACA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UAGGCACA	23235
5707	UGCCUAGU G UCAAGAU	4115	CAUCUUA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUAGGCA	23236
5728	AUGAGAU G CCUUGC	4116	GCAAGGG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAUCUACU	23237
5735	UGCCCUU G CCUACAAC	4117	GUUGUAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAAGGCA	23238
5744	CCUACAAC G UGUGGAA	4118	UUCACGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUUGUAGG	23239
5746	UACAAGU G CUGGAAG	4119	CUUCCAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUUGUA	23240
5758	GAAGAAA G UGUCCA	4120	UUGGACUA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCUUCU	23241
5761	AGAAAGUA G UCCAAUUG	4121	CAAUUGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UACUUCU	23242
5778	AACAGAA G UCGUACGA	4122	UCGUACGA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCUGUU	23243
5781	AGAAAGUC G UACGAGAC	4123	GUUCUGUA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GACUUUCU	23244
5793	GAGACGA G UACCCAAA	4124	UUUGGUA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCCGUCUC	23245
5804	CCCAAUU G UAGACAG	4125	CGUUCUA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUUUUGG	23246
5827	GGACUUU G UUAUCACA	4126	UGUGAUA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAAGUCCC	23247
5857	AAUUGGG G CUAACTUC	4127	GAAGUAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CCCAUUU	23248
5869	ACUUAAG G CGAGCAGG	4128	CCUGUCG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUUGAAGU	23249
5873	CAAGCGA G CAGGUGA	4129	UCACCCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGCCUUG	23250
5878	CGAGCAG G UGAUUGAC	4130	GUCAUCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CCUGCUG	23251
5888	GAUUGACA G CCGGAAGA	4131	UCUUCGG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCAUUC	23252
5897	CCGAAGA G UGUAAAC	4132	GUUUCACA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCUUCCGG	23253
5899	GGAAGAGU G UGAACCA	4133	UGGUUCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUUCUCC	23254
5935	AAGGAGA G UGAUCCUG	4134	CAGGAUCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCUCUCCU	23255
5956	AACCAUCU G CAGUGACA	4135	UGUACUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGAUGGUU	23256
5959	CAUCUGCA G UGACAGCA	4136	UGUUGUCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGCAGUUG	23257
5965	CAGUGACA G CAGCUAGU	4137	ACUAGCUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCAUUG	23258

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5968	UGACAGCA G CUAGUGCC	4138	GGCACUAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCUGUCA	23259
5972	AGCAGCUA G UCGCGCC	4139	GGGCGGCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGCUGCU	23260
5974	CACUAGU G CCGCCAG	4140	CUGGGCGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUAGCUG	23261
5977	CUAGUGC G CCGAGAGA	4141	UCUCUGGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGCAGCUG	23262
5987	CCAGAGC G UGACAGUA	4142	UACGUCCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUCUCUGG	23263
5993	ACUGGAC G UAUGGUA	4143	UACCGAUA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUCCACGU	23264
5999	ACGUAGC G UAGAAUC	4144	GAUUUCUA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAUACGU	23265
6009	AGAAAUCC G UCGCAAGU	4145	ACUUGCGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGAUUUCU	23266
6012	AAUCCGUC G CRAGUUGG	4146	CCAAUCUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GACGGAUU	23267
6016	CGUGGCAA G UUGUGAU	4147	AUCACCAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGCGAGG	23268
6020	GCAAGUUG G UGAUGAGU	4148	ACUCAUCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACUUGC	23269
6027	GGUGAUGA G UACUGUUA	4149	UAAACAGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAUCACC	23270
6032	UGAGUACU G UUAUGGGG	4150	CCCAUAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUACUCA	23271
6042	UAUGGGG G CCAACGAA	4151	UUUGUGUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCCCCAUA	23272
6070	CGAACUUC G CCAUUGG	4152	CCAAUGGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAAGUUCG	23273
6085	GGACUGAG G CACGAUUC	4153	GAUUCGUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCAGUCC	23274
6096	CGAAUACU G CUGGACAA	4154	UUUUCACG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAUUCG	23275
6114	AUCAACAU G CCAAACGG	4155	CCGUUUGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGUUGAU	23276
6130	GACUGAUC G CUCAAUUC	4156	GAUUGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUCAGUC	23277
6150	CAACCAGA G CGUGAGAA	4157	UUCUCACG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGGUUG	23278
6152	ACCAGAGC G UGAGAGGG	4158	CCUUCUCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUCUGGU	23279
6160	GUGAGAAG G UAUUAUCC	4159	GGUAUAUA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCUCAC	23280
6186	GAUAACCG G CUCAGAGG	4160	CCUUCUGAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGGUUAUC	23281
6222	CUGAACU G UUGAGGAC	4161	GUCCUCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUCCAG	23282
6232	UGAGGACU G CAGAUCUG	4162	CAGAUCUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUCCUCA	23283
6240	GCAGAUCU G CAGUUIUG	4163	CAAACUGG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAUCUGC	23284
6244	AUCUGCCA G UUUGGCUG	4164	CAGCCAAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGCAGAU	23285
6249	CCAGUUG G CUGGCUUA	4165	UAAGCCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACUUGG	23286
6253	UUUGGCUG G CUUACAAG	4166	CUUGUAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCCAAA	23287
6262	CUUACAA G UUACAGCG	4167	CGCUGCAA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGUAAG	23288
6265	ACAAGGU G CAGCGGCU	4168	AGCCGCUG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACUUGU	23289
6268	AGGUUGCA G CGGCUUGA	4169	UCCAGCCG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCAACCU	23290
6271	UUGCAGG G CUGGAGUG	4170	CACUCCAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGCUGCAA	23291
6277	CGGCUGGA G UGUCAUAC	4171	GUAGACA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGCCG	23292
6279	GCUGGAGU G UCAUACCA	4172	UGGUUAUA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUCCAGC	23293
6297	GACCGGAG G UGGUGCUU	4173	AAGCACC A GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCGUC	23294
6300	CGGAGGUG G UGUUUGA	4174	UCAAAGCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACCUCCG	23295
6302	GAGGUGGU G CUUUGAUG	4175	CAUCAAG GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCACCUC	23296
6311	CUUUGAUG G UCCUAGGA	4176	UCCUAGGA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCAAG	23297
6349	ACAACGAA G UGGAAGUC	4177	GACUCCA GGA GCGGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCGUUGU	23298

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6355	AAGUGGAA G UCAUCACG	4178	CGUGAUGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUCACAUU	23299
6366	AUCACGAA G CUUGGUGA	4179	UCACCAAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUGUGAU	23300
6371	GAAGCUUG G UGAAGAAG	4180	UCCUUUCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAGCUUC	23301
6390	AUUCUGAG G CCGCGCUG	4181	CAGCGCGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUCAGAAU	23302
6393	CUGAGGCC G CGUGGAU	4182	AUCCAGCG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GGCUCUAG	23303
6395	GAGCGCG G UUGRAUUG	4183	CAAUCCAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCGGCCUC	23304
6406	GAUUGAC G CCAGGGUG	4184	CACCCUGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUCAAUCC	23305
6412	ACGCAGG G UGUACUCG	4185	CGAGUACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCUGGCGU	23306
6414	GCCAGGGU G UACUCGGA	4186	UCCGAGUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACCUGGC	23307
6430	AUCACCAG G CACUAAAG	4187	CUUUGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUGGUGAU	23308
6439	CACUAAAG G CGUUCAG	4188	CUUGAACG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUUUGUG	23309
6441	CUAAAGGC G UUCAAGGA	4189	UCCUUGAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCCUUAG	23310
6454	AGGACUUC G CCUCGGGA	4190	UCCGAGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GAAGUCCU	23311
6467	GGGAAAC G UUCUCAGA	4191	UCUGAGAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUUUUCCC	23312
6480	CAGUAGG G CUCAUUGA	4192	UCAUAGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCUAUCUG	23313
6490	UCAUUGAG G UUCUGGGA	4193	UCCACAGAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUCAAUGA	23314
6504	GGAAGAU G CCUGAGCA	4194	UGCUCAGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCUUUCC	23315
6510	AUGCCUGA G CACUUCAU	4195	AUGAAGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCAAGGCAU	23316
6535	CAUGGAA G CACUUGAC	4196	GUCRAUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUCCCAUG	23317
6549	GACACCAU G UACGUUGU	4197	ACAACGUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUGGUGUC	23318
6553	CCAUGUAC G UUGUGGCC	4198	GGCCACAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUACAUGG	23319
6556	UGUACGUU G UGGCCACU	4199	AGUGGCCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAGCUACA	23320
6559	ACGUUGUG G CCACUGCA	4200	UGCAGUGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CACAACGU	23321
6565	UGGCCACU G CAGAGAAA	4201	UTUCUGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGUGGCCA	23322
6583	GAGGAAGA G CUACAGA	4202	UCUGUGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCUCUCCUC	23323
6595	ACAGAAUG G CCCUGGAG	4203	CUCCAGGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAUUCUGU	23324
6609	GAGGAACU G CCAGAUUC	4204	GCAUCUGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGUUCUUC	23325
6616	UGCCAGAU G CUCUUCAG	4205	CUGAGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCUGGCA	23326
6631	AGACAAU G CCUUGAUT	4206	AAUCAAGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUUGUCU	23327
6640	CCUUGAUT G CCUUAUUG	4207	CAUAAGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUCAAGG	23328
6650	CUUAUUGA G UGUAUGA	4208	UCAUACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCAUAUAG	23329
6652	UAUUGAGU G UGAUGACC	4209	GGUACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUCAAUA	23330
6667	CCAUGGGA G UAUUCUUC	4210	GAAGAAUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCCAUGG	23331
6684	CUCCUUAU G CAGCGGAA	4211	UUCGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUGAGGAG	23332
6687	CUCAUGCA G CGGAAGGG	4212	CCUUCUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGCAUAG	23333
6695	GCGGAAGG G CAUUGGAA	4213	UUCCAAUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCUUCGCG	23334
6710	AAAGAUAG G UUUUGGAG	4214	CUCCCAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUUAUCUU	23335
6719	UUUGGGAG G CGCUGUCU	4215	AGACACG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUCCCAA	23336
6721	UGGAGGCG G CUGUCUUG	4216	CAAGACAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCCUCCCA	23337
6724	GAGGCGCU G UCUUGGGA	4217	UCCCAAAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCGCCUC	23338

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6733	UTUUGGA G UGCGGACC	4218	GGUCCGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCCCAAGA	23339
6736	UGGGAGUC G CGACCUUU	4219	AAAGGUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GACUCCCA	23340
6749	CUUUUCU G UUGGAUGG	4220	CCAUCCAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGAAAAAG	23341
6757	GUUGGAUG G CUGAAGUU	4221	AACUUCAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAUCCAAC	23342
6763	UGGCUGAA G UCCCAGGA	4222	UCCUGGAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UACAGCCA	23343
6781	CGAAGAU G UCGGAUUG	4223	CAUUCGGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GAUCUUGC	23344
6789	GCCGGAU G UUGUCUCU	4224	AGAGCAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AUUCGGC	23345
6792	GGAUGUU G CUGCUCUC	4225	GAGAGCAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AACAUUCC	23346
6795	AUGUUGU G CUCUCCUC	4226	AGGGAGAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGCAACAU	23347
6817	UGAUGAU G UGCUAAUU	4227	AAUAGCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AAUCAUA	23348
6819	AUGAUUG G CUAAUUC	4228	GGAUUAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACAUCAU	23349
6831	AUUCUGA G CCAGAGAA	4229	UUCUCUGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCAGGAU	23350
6840	CCAGAGAA G CAACGUUC	4230	GAAAGUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UUCUCUGG	23351
6845	GAAGCAAC G UUCGCAGA	4231	UUCGCGAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GUUCGUUC	23352
6849	CAACGUUC G CAGACAGA	4232	UCUGUCUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GAACGUUG	23353
6864	GACAAACA G CUAGCCGU	4233	ACGGCUAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGUUUGUC	23354
6868	ACCAGCUA G CCGUGUUC	4234	GAACACGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UAGCUGGU	23355
6871	AGCUAGCC G UGUUCCUG	4235	CAGGAACA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GGUUAGCU	23356
6873	CUAGCCGU G UUCUGAU	4236	AUCAGGAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACGGUUAG	23357
6884	CCUGAUU G UGUCAUGA	4237	UCAUGACA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AAUUCAGG	23358
6886	UGAUUGU G UCAUGACC	4238	GUUCAUGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACAAUUCA	23359
6898	UGACCCUU G UGAGCGCA	4239	UGGCUCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AAGGUUCA	23360
6902	CCUUGUGA G CGCAGUGG	4240	CCACUGCG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCACAGG	23361
6904	UUGUGAGC G CAGUGGCA	4241	UGCCACUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GTUCACAA	23362
6907	UGAGCGCA G UGGCAGCC	4242	GGCUGCCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGCGCUCA	23363
6910	GCGCAGUG G CAGCCAC	4243	GUUGGCUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CACUGCGC	23364
6913	CAGUGGCA G CCAACGAG	4244	CUGGUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGCCACUG	23365
6926	CGAGAUGG G UUGGCUAG	4245	CUAGCCAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCAUCUUG	23366
6930	AUGGUUG G CUAGAUA	4246	UUAUCUAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAACCAU	23367
6947	GACCAAGA G UGACAUAA	4247	UUAUGUCA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCUUGGUC	23368
6956	UGACAUAA G CAGUUGU	4248	ACAAACUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UUAUGUCA	23369
6959	CAUAAGCA G UUGUUGU	4249	CAAAACAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGUUUAUG	23370
6963	AGCAGUUU G UUGGGGCA	4250	UGCCCAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AAACUGCU	23371
6969	UUGUUGG G CAAAGAAU	4251	AUUCUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCAACAA	23372
6982	GAUUGAG G UCAAGGAG	4252	CUUCUUGA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CUCAUUC	23373
6998	GAUUAUA G CAUGGGAG	4253	CUCCCAUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGAAAUUC	23374
7008	AUGGGAGA G UUUUUUU	4254	AAAAGAA GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCUCCCAU	23375
7026	GACUAG G CCGGCAAC	4255	GUUGCCGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CUCAAGUC	23376
7030	UGAGGCCG G CAACAGCC	4256	GGCUGUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CGGCCUCA	23377
7036	CGGCAACA G CGUGUCA	4257	UGACCAGG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGUUGCCG	23378

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7041	ACAGCCUG G UCACUGUA	4258	UACAGUGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAGGCUGU	23379
7047	UGGUACU G UACGCUU	4259	ACAGCGUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGUAGCA	23380
7051	CACUGAC G CUGUGACA	4260	UGUCACAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUACAGUG	23381
7054	UGUACGU G UGACAACA	4261	UGUUGUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCGUACA	23382
7063	UGACAACA G CGUCCUC	4262	GAGGACCG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGUUUGUA	23383
7066	CAACAGCG G UCCUACU	4263	AGUGAGGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGCUUGUG	23384
7080	ACUCCACU G CUAAAGCA	4264	UGCUUAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGUGGAGU	23385
7086	CUGUAAA G CAUUGAU	4265	AUCRAAUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUUAGCAG	23386
7098	UUGAUAC G UCAGAUUA	4266	UAUUCUGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUGAUCAA	23387
7135	CAAUAAAC G UACAGGCA	4267	UGCCUGAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUUUUUGU	23388
7141	ACGUUCAG G CAAGUGCA	4268	UGCACUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUGAACGU	23389
7145	UCAGGCAA G UGCACUUA	4269	AUAGUGCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUGCCUGA	23390
7147	AGGCAAGU G CACUAUUC	4270	GAUAUGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUUGCCU	23391
7162	UCACACUC G CGCGAGGC	4271	GCCUCGCG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GAGUGUGA	23392
7164	ACACUCGC G CGAGGCUU	4272	AAGCUCUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCGAGUGU	23393
7169	CGCGGAG G CUUCGCCU	4273	AGGGGAAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUGCGCG	23394
7180	UCCGCUU G UCGAUGUU	4274	AACAUGCA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GAAGGGGA	23395
7186	UCGUUGAU G UUGGAGUG	4275	CACUCCAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUGGACGA	23396
7192	AUGUUGGA G UUGCGCU	4276	AGCCGACA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCACACU	23397
7194	GUUGGAGU G UCGGCUU	4277	AGAGCCGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUCCAAC	23398
7198	GAGUGUG G CUCUCUG	4278	CAGGAGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGACACUC	23399
7206	GCUCUCCU G CUAGCAGC	4279	GCUGUAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGGAGAGC	23400
7210	UCCUGCUA G CAGCCGGA	4280	UCCGCGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UAGCAGGA	23401
7213	UGCUAGCA G CCGGAUGC	4281	GCAUCGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGCUAGCA	23402
7220	AGCGGAU G CUGGGGAC	4282	GUCCGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCGGGCU	23403
7231	GGGACAA G UCACCCUC	4283	GAGGUGA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUGUCCCC	23404
7243	CCUCCAC G UUACGGUA	4284	UACCGUAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GGUGAGGG	23405
7249	CCGUUACG G UAACAGCG	4285	CGCUUUA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGUAAACGG	23406
7255	CGGUACA G CGGCAACA	4286	UGUUGCCG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGUUACCG	23407
7258	UAACAGCG G CAACACUC	4287	GAGUGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGCUGUUA	23408
7274	CCUUUUU G CCACUAUG	4288	CAUAGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAAAAAGG	23409
7282	GCCAUU G CCUACUAG	4289	CAUGUAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUAGUGGC	23410
7291	CCUACAU G UUCGCGU	4290	ACCGGAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAUUGAGG	23411
7298	GGUCCCG G UUGGCAAG	4291	CUUGCAA GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGGGAACC	23412
7302	CCCGUUG G CAAGCUGA	4292	UCCGCUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAACCGGG	23413
7306	UUGGCAA G CUGAGGCA	4293	UGCCUAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUGCCAAC	23414
7312	AAGUCAG G CAUUGCG	4294	GCGCAUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUCAGCUU	23415
7317	GAGGCAU G CGCUCAGC	4295	GCUGAGCG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUUGCCUC	23416
7319	GGCAUUG G CUCAGCCC	4296	GGGUGAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCAUUGCC	23417
7324	UGCGCUA G CCCAGCGG	4297	CCGUGGG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGAGCGCA	23418

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7329	UCAGCCCA G CGGCGGAC	4298	GUCCCGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UGGGCUGA	23419
7332	GCCAGCG G CGGACAGC	4299	GUUGUCG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CGCUGGCG	23420
7339	GGCGGACA G CGGCGGGA	4300	UCCGGCGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UGUCGCGC	23421
7342	GGACAGCG G CGGGAUCC	4301	GAUUCGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CGCUGUCC	23422
7360	UGAAGAAC G CUGUAGUG	4302	CACUACG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GUCUUCUA	23423
7363	AGAAGCU G UAGUGGAU	4303	AUCCACG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGCUGUUA	23424
7366	ACGCUUA G UGAUGGC	4304	GCAUCCA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UACAGCGU	23425
7373	AGUGGAUG G CAUCUGUG	4305	CCACGAU GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CAUCCACU	23426
7378	AUGGCAUC G UGGCCACG	4306	CGUGCCA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GAUGCCAU	23427
7381	GCAUCUG G CCACGGAC	4307	GUCCGUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CACGAUGC	23428
7390	CCACGGAC G UCCAGAA	4308	UUUGGGA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GUCCGUGG	23429
7404	GAUUGA G CGCACCAC	4309	GUUGUGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UCUAAUUC	23430
7406	AUUAGAGC G CACCACAC	4310	GUGUGGUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GCUCUAAU	23431
7422	CCCAUCAU G CAGAAGAA	4311	UUUUCUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AUGAUGGG	23432
7432	AGAAGAA G UUGGACAG	4312	CUUUCRA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UUUUCUUC	23433
7446	CAGAUAU G CUGACUUA	4313	AAGAUCAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AUGAUCUG	23434
7456	UGAUCUG G UGUCUCUA	4314	UAGAGACA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CAAGAUA	23435
7458	AUCUUGU G UCUCUAGC	4315	GCUAGAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG ACCAAGAU	23436
7465	UGUCUCUA G CUGCAGUA	4316	UACUGCAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UAGAGACA	23437
7468	CUCUAGU G CAGUAGUA	4317	UACUACUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGCUAGAG	23438
7471	UAGCUGCA G UAGUAGUG	4318	CACUACUA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UGCAGCUA	23439
7474	CUGCAGUA G UAGUGAAC	4319	GUUCACUA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UACUGCAG	23440
7477	CAGUAGUA G UGAACCCG	4320	CGGCUCA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UACUACUG	23441
7485	GUGAACCC G UCUGUGAA	4321	UUCACAGA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GGUUCAC	23442
7489	ACCGUUC G UGAAGACA	4322	UGUCUUA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGACGGGU	23443
7498	UGAAGACA G UACGAGAA	4323	UUCUCGUA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UGUCUUA	23444
7507	UACGAGAA G CCGGAUUA	4324	AAUUCGG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UUCUCGUA	23445
7525	UGAUCAG G CCGCAGCG	4325	CGCUGCG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CGUGAUA	23446
7528	UCACGGCC G CAGCGGUG	4326	CACCGTUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GGCCGUGA	23447
7531	CGGCCGCA G CGGUGACG	4327	CGUCACG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UGCGGCCG	23448
7534	CCGACGG G UGACGCUU	4328	AAGCGUA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG CGCUGCGG	23449
7539	GCGGUGAC G CUUUGGA	4329	UCCCAAAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GUCACCGC	23450
7555	AGAAUGA G CAAGCUCU	4330	AGAGCUUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UCCAUUUC	23451
7559	UGGAGCAA G CUCUGUUA	4331	AAACAGAG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG UUGCUCCA	23452
7564	CAAGCUCU G UUGGAAC	4332	GUUCCAA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGAGCUUG	23453
7573	UUUGAAC G CAACAACU	4333	AGUUGUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GUUCCAAA	23454
7582	CAACAACU G CCAUCGGA	4334	UCCGAUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGUUGUG	23455
7595	CGGACUCU G CCACAUA	4335	UGAUGUG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AGAGUCCG	23456
7605	CACAUAU G CGUGGGG	4336	CCCCACG GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG AUGAUGUG	23457
7607	CAUCAUG G UGGGGGUU	4337	AACCCCA GGA GCGGUUAGGC UCCCUCAAGGA GCGGUUAGGC UCCGGG GCAUGAUG	23458

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7613	GCGUGGG G UUGUUGU	4338	ACAACAA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CCCACGC	23459
7617	GGGGUUG G UUGUACU	4339	CAUGACA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CAACCCC	23460
7620	GGUUGGU G UCAUUCU	4340	AGACAUAG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	AACCAAC	23461
7625	GUUGUACU G UCUAUCU	4341	UGGAUAGA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	AUGACAAC	23462
7682	AAAAAGG G UGGGCAA	4342	UUGCCCCA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CUCUUUU	23463
7687	GAGUGGG G CAAAGGA	4343	UCCUUUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CCACCUC	23464
7697	AAAGGAC G CACCUUG	4344	CCAAAGUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	GUCUUUU	23465
7711	UGGAGAG G UUGGAAA	4345	UUUCCAAA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CUCUCCA	23466
7749	AAAGAAG G UUCACUAG	4346	CUAGUGAA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UCUUUUU	23467
7758	UUCACUAG G UACCGCAA	4347	UUGCGGUA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CUAGUGAA	23468
7763	UAGGUACC G CAAAGAG	4348	CCUUCUUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	GGUACCUA	23469
7771	GCAAAGAG G CCAUCAUC	4349	GAUGAUGG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CUCUUUG	23470
7783	UCAUCGAA G UCGAUCGC	4350	GCGAUCGA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UUCGAUGA	23471
7790	AGUCGAUC G CUCAGCG	4351	CCGUCGAG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	GAUCGACU	23472
7795	AUCGCUCA G CGGCAAAA	4352	UUUUGCG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UGAGCGAU	23473
7798	GCUCAGCG G CAAACAC	4353	GUGUUUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CGCUGAGC	23474
7807	CAAAACAC G CCAGGAAA	4354	UUUCUUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	GUGUUUG	23475
7820	GAAGAAG G CAAUGUA	4355	UGACAUUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CUUCUUUC	23476
7825	AAGCAAU G UCACUGGA	4356	UCCAGUGA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	AUUGCCUU	23477
7836	ACUGGAG G CAUCCAGU	4357	ACUGGAUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CUCCAGU	23478
7843	GGCAUCCA G UCUCUAGG	4358	CCUAGAGA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UGGAUGCC	23479
7853	CUCUAGG G CACAGCAA	4359	UUGCUUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CCUAGAG	23480
7858	GGGCACA G CAAACUG	4360	CAGUUUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UGUGCCCC	23481
7872	CUGAGAG G CUGGUCCA	4361	UCGACCAG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CAUCUCAG	23482
7876	GAUGGUG G UCGAACGG	4362	CCGUUGCA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CAGCCAUC	23483
7887	GAACGGAG G UUCUCGA	4363	UCGAGAAA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CUCCGUUC	23484
7900	UCGAACCG G UCGGAAA	4364	UUUCCGA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CGGUUCGA	23485
7909	UCGGAAGA G UGAUUGAC	4365	GUCAAUCA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UUUUCCGA	23486
7925	CCUUGGAU G UGGAAGAG	4366	CUCUUGCA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	AUCCAAGG	23487
7934	UGGAAGAG G CGGUUGGU	4367	ACCAACCG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CUCUUGCA	23488
7937	AAGAGGCG G UUGGUUU	4368	AACACAA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CGCUCUU	23489
7941	GGCGGUUG G UGUUACUA	4369	UAGUAACA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CAACCGC	23490
7943	CGGUUGGU G UUAUUAUA	4370	UAUAGUAA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	ACCAACCG	23491
7954	ACUAUUG G CAACCCAA	4371	UUGGUGUG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CAUAUAGU	23492
7969	AAAAAGA G UCCAAGAA	4372	UUCUUGGA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UCUUUUUU	23493
7978	UCCAGAA G UCAGAGGG	4373	CCCUUGA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UUCUUGGA	23494
7986	GUAGAGG G UACACAAA	4374	UUUUGUA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CTUUGAC	23495
7997	CACAAAG G CGGUCCCG	4375	CGGACCG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CCUUUGUG	23496
8000	AAAGGCG G UCCCGGAC	4376	GUCCGGA GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	CGCCUUU	23497
8016	CAUGAAGA G CCCCAACU	4377	AGUUGGG GGA GCGUUAGG	UCCUUCAAGGA	GCGUUAGG	UCCGG	UCUUCAUG	23498

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8026	CCCAACUA G UGCAAGU	4378	ACUUUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGUUUGG	23499
8028	CACUAGU G CAAAGUUA	4379	UAACUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAGUUG	23500
8033	AGUGCAA G UUAUGGAU	4380	AUCCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGACAU	23501
8050	GGAACAU G UCACCAUG	4381	CAUGGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGUUCC	23502
8063	CAUGAAGA G UGGAGUGG	4382	CCACUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCAUG	23503
8068	AGAGUGGA G UGAUGUG	4383	CACAUCUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCACUCU	23504
8074	GAGUGGAU G UGUUCUAC	4384	GUAGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCACUC	23505
8076	GUGGAUGU G UUCUACAG	4385	CUGUAGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCCAC	23506
8094	CUUCUGA G UGUUGUGA	4386	UGCAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGAAAG	23507
8096	UUCUGAGU G UUGUGACA	4387	UGUACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAGAA	23508
8099	UGAGUGUU G UGACACCC	4388	GGGUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACUCA	23509
8114	CUUCUUU G UGACAUUG	4389	CGAUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGGAGG	23510
8127	AUCGGAGA G UGCUCGUC	4390	GACGAGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCCGAU	23511
8133	GAGUCCUC G UCAAGUGC	4391	GCACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGGACUC	23512
8138	CUGGUCAA G UGCUGAGG	4392	CCUCAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACGAG	23513
8140	CGUCAAGU G CUGAGGUU	4393	AACUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUGACG	23514
8146	UGUCUGAG G UGAAGGAG	4394	CUCUCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAGCAC	23515
8150	GUUGAAGA G CAUAGGAC	4395	GUCCUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCAAC	23516
8154	CGAUUCG G UCCUUGAA	4396	UUCUAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGAAUUG	23517
8182	UUGAAUUG G UUGAGGAC	4397	GUCCUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUAACA	23518
8193	GAGGACUG G CUGCACCG	4398	CGUGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCCUC	23519
8196	GACUGGCU G CACCGAGG	4399	CCUCGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCAGUC	23520
8205	CACCGAGG G CCAAGGGA	4400	UCCUUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUGGUG	23521
8219	GGAAUUU G CGUGAAGG	4401	CCUUCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUUCC	23522
8221	AAUUUUGC G UGAAGGUG	4402	CACUUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAAAAUU	23523
8227	GCGUGAG G UGCUCUGC	4403	GCAGAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUACGCG	23524
8229	UGAAGGU G CUCUGCCC	4404	GGGACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUUCAC	23525
8234	GGUGUCU G CCCCACA	4405	UGUAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCAC	23526
8244	CCUACAU G CCGAAAGU	4406	ACUUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUAGGG	23527
8251	UGCCGAAA G UCAUAGAG	4407	CUCUAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCGGCA	23528
8268	AAGAUGGA G CUGCUCCA	4408	UGGAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUCUU	23529
8271	AUGGAGCU G CUCCAACG	4409	CGUUGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCCAU	23530
8279	GUCCAC G CCGUAUG	4410	CAUACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGGAGC	23531
8283	CAACGCG G UAUUGGGG	4411	CCCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCGUUG	23532
8299	GGGACUG G UCAGAAAC	4412	GUUUCUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCCCC	23533
8328	AAUCCAC G CACGAGAU	4413	AGUCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGAUUU	23534
8337	CACGAGAU G UAUUGGUU	4414	ACCCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUGUG	23535
8344	UGAUUGG G UGAGUCGA	4415	UGACUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUACA	23536
8348	UUGGGUGA G UCGAGCUU	4416	AGCUCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACCCAA	23537
8353	UGAGUCGA G CUUCAGGC	4417	GCTUGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGACUCA	23538

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8360	AGCTUCAG G CAAUGUGG	4418	CCCAUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAAGCU	23539
8365	CAGGCAAU G UGGUACAU	4419	AUGUACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUTGCCUG	23540
8368	GCAUUG G UACAUAUA	4420	UGAAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUTGC	23541
8377	UACAUAUA G UGAUAUUG	4421	CAUAUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUAUGA	23542
8390	UAUGACCA G CCAGGUGC	4422	GCACCCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUAUA	23543
8395	CCAGCCAG G UGCUCUA	4423	UAGGAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGCTUGG	23544
8397	AGCCAGGU G CUCCUAGG	4424	CCUAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUGGCU	23545
8452	AGGAAGAU G UAAACUUG	4425	CAAGUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCCU	23546
8465	CUUGGGAA G UGGAACCA	4426	UGGUUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAG	23547
8476	GAACCCAG G CGUGGGGA	4427	UCCACCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGGUUC	23548
8479	CCAGGGCG G UGGGAAA	4428	UUUUCCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCUGG	23549
8493	AAACCCCU G CUCAACUC	4429	GAGUUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGGGUU	23550
8510	AGACACCA G UAAAUAUA	4430	UGAUUUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUGUCU	23551
8541	CGACUCAG G CGUGAGUA	4431	UACUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGAGUCG	23552
8543	ACUCAGG G UGAGUACA	4432	UGUACUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCTUGAGU	23553
8547	AGGCGUGA G UACAGUUC	4433	GAACUGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACGCCU	23554
8552	UGAGUACA G UUCGACGU	4434	ACGUCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUACUCA	23555
8559	AGUUCGAC G UGGCACCA	4435	UGUGGCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUAAC	23556
8562	UCGACUG G CACCACGA	4436	UGGUGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUCCA	23557
8606	CUAUCAG G CAGUUAUG	4437	CAUAACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGAUG	23558
8609	UCACGGCA G UUAUGAUG	4438	CAUCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCUGUA	23559
8617	GUUAUGAU G UGAAGCCC	4439	GGGCTUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUAAC	23560
8622	GAUGUGAA G CCCACAGG	4440	CCUGUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACAUC	23561
8630	GCCACAG G CUCCGCCA	4441	UGGCGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUGGGC	23562
8635	CAGGCUCC G CCAGUUCG	4442	CGAACUGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCCUG	23563
8639	CUCCGCCA G UUCGCUUG	4443	CCAGCCGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCGGAG	23564
8643	GCAGUUC G CUGGUCAA	4444	UUGACCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAACUGGC	23565
8647	GUUGCUG G UCAUUGGA	4445	UCCAUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCGAAC	23566
8656	UCAUUGGA G UGGUCAGG	4446	CCUGACCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUAUA	23567
8659	AUGGAGUG G UCAGGCUC	4447	GAGCCTGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCCA	23568
8664	GUUGUCAG G CUCCUCUC	4448	GAGAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGACCAC	23569
8698	UACGGAU G UUAACCAC	4449	GGUGGUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUGUA	23570
8710	CCACCAUG G CCAUGACU	4450	AGUCAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGGUGG	23571
8736	CCUUCGG G CACAGCG	4451	CGUGCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCGAAGGG	23572
8739	UUCGGGCA G CAGCGAGU	4452	ACUCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCCGAA	23573
8742	GGCAGCA G CGAGUGUU	4453	AAACUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUGCCC	23574
8746	AGCAGCA G UGUUCAA	4454	UUUGAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUGUCU	23575
8748	CAGGAGU G UUCAAGA	4455	UUUUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCGUG	23576
8761	AAGAGAAG G UGGACACG	4456	CGUGUCCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUCU	23577
8773	ACACGAA G CUCCUGAA	4457	UUCAGGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGUGU	23578

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8784	CCUGAAC G CCAGAGG	4458	CCUUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUUCAGG	23579
8794	CAGAAGGA G UGAAGUAC	4459	GUACUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUUCUG	23580
8799	GGAGUGA G UAGGUGCU	4460	AGCACGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCACUCC	23581
8803	UGAAGUAC G UGCUCAAU	4461	AUUGAGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUACUUA	23582
8805	AAGUACGU G CUCAAUAGA	4462	UCAUUGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGUACUU	23583
8826	ACCAACUG G UUGUGGGC	4463	GCCACAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUUGGU	23584
8829	AACUGGUU G UGGGCGUU	4464	AAGCCCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACCAUUU	23585
8833	GGUUGUG G CGUUUUG	4465	CAAAAACG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCACAACC	23586
8835	UUGUGGC G UUUUUGGC	4466	GCCAAAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCACAA	23587
8842	CGUUUUUG G CCAGAGAA	4467	UUCUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAAACG	23588
8855	AGAAAAC G UCCAGAA	4468	UUCUGGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUUUUUU	23589
8865	CCAGAAU G UGCUCUCG	4469	CGAGAGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUCUGGG	23590
8867	CAGAAUG G CUCUCGAG	4470	CUCGAGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUUCUG	23591
8893	UAGAAAG G UCAACAGC	4471	GCUGUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUCUUA	23592
8900	GGUCAACA G CAAUGCAG	4472	CUGCAUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUGACC	23593
8905	ACAGCAAU G CAGCUUUG	4473	CAAAGCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGCUGU	23594
8908	GCAAUACA G CUUUGGGU	4474	ACCAAAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCAUUGC	23595
8915	AGCUUUG G UGCCAUGU	4475	ACAUGGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAAAGCU	23596
8917	CUUUGGGU G CCAUGUUU	4476	AAACAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCCAAG	23597
8922	GGUGCCAU G UUGAAGA	4477	UUCUCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGCACC	23598
8931	UUUGAAGA G CAGAAUCA	4478	UGAUUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCAAA	23599
8948	AUGGAGA G CGCCAGAG	4479	CUCUGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCCAU	23600
8950	GGAGGAG G CCAGAGAA	4480	UUCUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUCUCC	23601
8959	CCAGAGAA G CAGUUGAA	4481	UUAACUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCUGG	23602
8962	GAGAAGCA G UUGAAGAU	4482	AUCUCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCUUCUC	23603
8989	GGGAGAU G UGGAUGAG	4483	CUCAUCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUCUCC	23604
9000	GAUGAGGA G CGCGAGGC	4484	GCCUCGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCAUC	23605
9002	UGAGGAG G CGAGGCAC	4485	GUCCUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUCUUA	23606
9007	AGCGCAG G CACAUCUG	4486	CAGAUGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCGCGCU	23607
9015	GCACAUU G CGGGGGGA	4487	UCCCCCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGAUGUC	23608
9026	GGGGGAU G UACACAUU	4488	AAGUGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCCCCC	23609
9035	UCACAUU G CAUUUACA	4489	UGUAAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGUGUA	23610
9078	CCCGGAGA G UUCGGAAA	4490	UUUCCGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCCGG	23611
9088	UCGGAAG G CCAAGGGA	4491	UCCUUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUUCGGA	23612
9098	CAAGGGA G CAGAGCCA	4492	UGGCUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCUCCUUG	23613
9103	GAAGGAGA G CCAUUUGG	4493	CCAAUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCGUUUC	23614
9111	GCCAUUG G UUCAUUGU	4494	CACAUGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAUGGC	23615
9117	UGGUUCAU G UGGUCUGG	4495	CGAGCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGAACCA	23616
9120	UUCAUGU G CUCGAGC	4496	GCUCGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACAUGAA	23617
9127	GGUCGGA G CUCGUUUU	4497	AAAGCAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGAGCC	23618

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9131	CGGAGCUC G CUUUCUGG	4498	CCAGAAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCUCCG	23619
9141	UUUCUGGA G UUGAGGCG	4499	GCCUCGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGAAA	23620
9148	AGUUCGAG G CUCUGGGU	4500	ACCCAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGAACU	23621
9155	GGCUCUGG G UUUCUCA	4501	UGAGAAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGAGCC	23622
9177	GACCACUG G CUUGAAG	4502	CUUCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUGGUC	23623
9203	AGGAGGAG G UGUCGAGG	4503	CCUCGACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCUCCU	23624
9205	GAGGAGG G UCGAGGGC	4504	GCCUCGGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCC	23625
9212	UGUCGAGG G CUGGGGCC	4505	GGCCCAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGACA	23626
9218	GGGCUUGG G CCUCCAAA	4506	UUUGAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGCCC	23627
9233	AAACUGG G UUAUAUCC	4507	GGAUGAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUUUU	23628
9243	UACUAUCC G CGUAGAGU	4508	ACTUCACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUGUA	23629
9245	CAUCCUG G UGAAGUUG	4509	CAACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGGAUG	23630
9250	UGCGUGAA G UUGCACC	4510	GGUGCAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACGCA	23631
9254	UGAAGUUG G CACC CGC	4511	GCCGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACUUA	23632
9261	GGCACCG G CUUGGGG	4512	CCCCAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGUGCC	23633
9269	GCCUGGG G CAAGAUCU	4513	AGAUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCAGC	23634
9280	AGAUCUAU G CUGAUGAC	4514	GUCAUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUAUCU	23635
9292	AUGACACA G CUGGUGG	4515	CCAGCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGUAU	23636
9296	CACAGCUG G CUGGACA	4516	UGUCCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCUGUG	23637
9308	GGACACC G CAUCACGA	4517	UCGUAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGUGUCC	23638
9319	UCACGAGA G CUGACUUG	4518	CAAGUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGUGA	23639
9337	AAAUAGAA G CUAAGGUG	4519	CACCUUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAUUUU	23640
9343	AAGCUAAG G UGUUGAG	4520	CUCAAGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAGCUU	23641
9345	GUUAGGU G CUUGAGCU	4521	AGCUAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUAGC	23642
9351	GUUAGGU G CUGCUUGA	4522	UCAAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGCAC	23643
9354	CUUGAGCU G CUUGAUGG	4523	CCAUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCUAG	23644
9372	GAACAUCG G CGUCUUGC	4524	GCAAGACG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUGUUC	23645
9374	ACAUGGC G UCUUGCCA	4525	UGGCAAGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGAUGU	23646
9379	GGGUCUU G CCAGGGCC	4526	GGCCUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGACGCC	23647
9385	UUGCCAGG G CCAUCAUU	4527	AUUGAUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGGCAA	23648
9396	AUCAUTGA G CUCACCUA	4528	UAGGUGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUAGAU	23649
9407	CACCUAUC G UCACAAAG	4529	CUUUGUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUAGGUG	23650
9415	GUACAAA G UUUGAAA	4530	UUUCACAA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUGUGAC	23651
9418	ACAAAGUU G UGAAGUG	4531	CACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUUGU	23652
9424	UUUGAAA G UGAUGCGC	4532	GCUCAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUACACAA	23653
9429	AAAGUGAU G CGCCCGGC	4533	GCCGGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACUUU	23654
9431	AGUGAUG G CCCGGCUG	4534	CAGCCGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAUCACU	23655
9436	UGCGCCCG G CUGCTUGA	4535	AUCAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGCGCA	23656
9439	GCCGGGCU G CUGAUGGA	4536	UCCAUCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCGGGC	23657
9454	GAAGAACC G UCAUGGAU	4537	AUCCAUGA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCUUC	23658

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9463	UCAUGGAU G UUAUUCUC	4538	GGAGUAUA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AUCCAUGA	23659
9491	GAGGGGGA G UGACAAG	4539	CUUGUCCA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UCCCCUC	23660
9499	GUGGACAA G UUGUCACC	4540	GGUGACAA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UUGUCCAC	23661
9502	GACAAGUU G UCACCUAC	4541	GUAGGUGA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AACUUGUC	23662
9511	UCACCUAC G CCCUAAAC	4542	GUUAGGG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG GUAGGUGA	23663
9535	CCAACCU G CCGUCCAG	4543	CUAGACGG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CAGGUUGG	23664
9538	ACUUGGCC G UCCAGCUG	4544	CAGCUGGA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG GGCACAGU	23665
9543	GCGGUCCA G CUGGUGAG	4545	CUACACAG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UGGACGGC	23666
9547	UCCAGCUG G UGAGGAUG	4546	CAUCCUCA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CAGCUGGA	23667
9571	GGGAAGGA G UGAUTGGC	4547	GCCAUAUA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UCCUUCUC	23668
9578	AGUGAUUG G CCGAGAUG	4548	CAUCUGGG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CAUACACU	23669
9589	CAGAUGAU G UGAGAGAA	4549	UUUUCUCA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AUCAUCUG	23670
9622	GACCCAAA G UCAGGACC	4550	GGUCCUGA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UUUGGGUC	23671
9633	AGGACCU G CUGUUUGA	4551	UCAAAACAG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CAGGUCCU	23672
9636	ACCUGGCU G UUUGAGAA	4552	UUCUCAA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AGCAGGU	23673
9662	AAGACUA G CCGAUGG	4553	CCAUGGG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UGAGUCUU	23674
9665	ACUCAGCC G CAUGGCUG	4554	CAGCCAUG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG GGTUGAGU	23675
9670	GCGCAUG G CUGUCAGU	4555	ACUGACAG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CAUGCGGC	23676
9673	GCAUGGCU G UCAGUGGA	4556	UCCACUGA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AGCCAUDC	23677
9677	GCGUGUA G UGAGAGUG	4557	CAUCUCA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UGACAGCC	23678
9689	AGAUGACU G UGUUGUAA	4558	UUUACCAC GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AGUCAUCU	23679
9691	AUGACUGU G UGUUAAAG	4559	CUUUAACA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG ACAGUCAU	23680
9694	ACUGUGUG G UAAAGCCC	4560	GGGCUUUA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CACACAGU	23681
9699	GUUGUAAA G CCCUGGA	4561	UCCAGGG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UUUACCAC	23682
9713	GGACGAUC G CUUUGCCA	4562	UGGCAAG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG GAUCGUCC	23683
9718	AUCGCUU G CCACCUUG	4563	CGAGGUGG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AAAGCGAU	23684
9726	GCCACCU G CUCCACUU	4564	AAUGGGAG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG GAGGUGGC	23685
9742	UCCUCAU G CUAUGUCA	4565	UGACAUG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AUUGAGGA	23686
9747	AAUGCUAU G UCAAAGGU	4566	ACCUUGA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AUAGCAUU	23687
9754	UGUCAAG G UUGGCAAA	4567	UUUGOGAA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CUUUGACA	23688
9758	AAAGGUUG G CAAAGACA	4568	UGUCUUUG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG GAACCUUU	23689
9774	AUCCAAGA G UGGAUACC	4569	GGUUAUCA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UCUUGGAU	23690
9783	UGGAAACC G UCAACUGG	4570	CCAGUUGA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG GGUUCCA	23691
9795	ACUGGAUG G UAUGAUUG	4571	CHAUCAUA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CAUCCAGU	23692
9804	UAUGAUUG G CAGCAGGU	4572	ACUUGCUG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CAUACAUA	23693
9807	GAUUGGCA G CAGGUUCC	4573	GGAACCU GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG UGCCAUUC	23694
9811	GGCAGCAG G UCCCAUUU	4574	AAUUGGAA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CUGUGGCC	23695
9821	UCCAUUU G UCAAAACC	4575	GUUUGAG GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG AAAUUGGA	23696
9868	GAACACUG G UGGUUCUA	4576	UGGAACCA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CAGUUGUC	23697
9871	CACUGGUG G UUCAUUGC	4577	GCAUGGAA GGA GCGGUUAGGC UCCUUCUAAGGA GCGGUUAGGC UCCGGG CACCAGUG	23698

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9878	GGUCCAU G CCAGGAC	4578	GUCCUCG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AUGGAAC	23699
9898	AUGAAUG G UAGCAGA	4579	UCUGCCUA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CAUUCAU	23700
9902	AUUGUAG G CAGAGCUC	4580	GAGCUCG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CUACCAU	23701
9907	UAGGCAGA G CUCCGAUA	4581	UAUGCGAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG UCUGCCUA	23702
9911	CAGAGCUC G CAUAUCUC	4582	GAGAUUG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GAGCUCUG	23703
9925	CUCCAGG G CCGAUGG	4583	CCAUCCG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CCCUGAG	23704
9937	GAUGAAC G UCCCGAC	4584	GUCCGGA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GUUCCAU	23705
9941	GAGGUCC G CGACACUG	4585	CAGUUGC GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GUACGUC	23706
9949	GGACACU G CUUGUCUG	4586	CAGACAAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AGUGUGC	23707
9953	CACUGCU G UCUGGCUA	4587	UAGCCGA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AAGCAGUG	23708
9958	CUUGUCUG G CUAAGUCU	4588	AGACUAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CAGACAAG	23709
9963	CUGGCUAA G UCUAUGC	4589	GCAUAGA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG UUAGCCAG	23710
9970	AGUCUAU G CCCAGAUG	4590	CAUCUGG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AUAAGACU	23711
9978	GCCAGAU G UGCGUCU	4591	AGCAGCA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AUCUGGC	23712
9981	CAGUGUG G CUGUCUCU	4592	AGAAGCAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CACAUCU	23713
9984	AUGUGGU G UCUCUGUA	4593	UACAGAAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AGCCACAU	23714
9990	CUGCUUCU G UACUCCA	4594	UGGAAGUA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AGAAGCAG	23715
10011	AGAGACU G CGGCUCU	4595	AUGAGCG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AGGUCUCU	23716
10014	GACUCUG G CUCAUGGC	4596	GCCAUGAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GCGAGUC	23717
10021	GGCUAUG G CCAACGCC	4597	GGCGUUG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CAUGAGCC	23718
10027	UGGCCAAC G CCAUUGC	4598	GCAAUGG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GUUGGCCA	23719
10034	CGCAUUA G CUCCGUG	4599	CAGCGAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AAUUGCG	23720
10039	UUUGCUC G CUGUCCCU	4600	AGGACAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GGAGCAA	23721
10042	GUCCCGU G UCCUGUG	4601	CACAGGA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AGCGAGC	23722
10048	CUGUCCU G UGAUUGG	4602	CCAAUUA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AGGGACAG	23723
10057	UGAAUGG G UCCUACC	4603	GUAGGGA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CCAAUUA	23724
10077	AGAACCA G UGUCCAU	4604	AUGGACA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GUGGUUCU	23725
10080	ACCACGU G UCCAUCCA	4605	UGGAUGA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CACGUGU	23726
10090	CCAUCU G CAGAGGA	4606	UCCUCCU GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AUGGAUG	23727
10101	GGAGGAG G UGAUGAC	4607	GUCAUUA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG UCUCUCC	23728
10122	GAGGACU G UUGAGGU	4608	ACCUCAA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG AUGUCCU	23729
10129	UGUUGAG G UCUGAAC	4609	GUUCCAG GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CUCCAACA	23730
10139	CUGAACC G UGUUGGA	4610	UCCAAACA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GGUUCCAG	23731
10141	GGNACCU G UUGGAUA	4611	UAUCCAA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG ACCGUUCC	23732
10183	AAACCCU G UGAGAAA	4612	UUUCCUA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG UGGGUUU	23733
10196	GAAUGGA G UGACGUCC	4613	GGAGUCA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG UCCAUUUC	23734
10201	GGAGUGAC G UCCAUUA	4614	AUAUGGA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG GUCACUCC	23735
10233	GACAUUG G UGUUGCAG	4615	CUGCCACA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CAGAUGC	23736
10235	CAUCUGU G UGGCAGCC	4616	GGCUGCA GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG ACCAGAUG	23737
10238	CUGGUG G CAGCCUGA	4617	UCAGGCU GGA GCCGUUAGGC UCCUUCAGGA GCCGUUAGGC UCCGG CACACCAG	23738

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10241	GUUGGCA G CCUAUUG	4618	CAUACAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCCACAC	23739
10250	CCUGAUUG G CACAAGAG	4619	CUCUUGUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUACAGG	23740
10258	GCACAAGA G CCGAGGCC	4620	GGCUCGGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUGUGC	23741
10264	GAGCCGA G CCACGUGG	4621	CCACGUGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCGGGUC	23742
10269	CGAGCCAC G UGGGCAGA	4622	UCUGCCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGGUCUG	23743
10273	CCACGUGG G CAGAAAC	4623	GUUUUCUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCACGUGG	23744
10288	ACAUCCAG G UGGCUAUC	4624	GAUAGCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGGAUGU	23745
10291	UCCAGGUG G CUUAUAC	4625	GUUGAUAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACCGGA	23746
10303	UCAACCAA G UCAGAGCA	4626	UGUCUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGUUGA	23747
10309	AAGUCAGA G CAUAUUC	4627	GAUGAUUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGAUUC	23748
10329	GAUGAGAA G UAUGUGGA	4628	UCCACAUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUCUAUC	23749
10333	AGAAGUAG G UGGAUUC	4629	GUAAUCCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUACUUCU	23750
10346	UACAUGA G UUCACUAA	4630	UUAUGGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAUGUAA	23751
10378	CAACUUUG G UGAGGAC	4631	GUCCUCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAGUUG	23752
10390	AGGACACA G UACUGUAG	4632	CUACAGUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUGUCCU	23753
10395	ACAGUACU G UAGAUAUU	4633	AAUAUCUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUACUGU	23754
10413	AAUCAUUG G UAAAUAGA	4634	UCUAUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUUGAUU	23755
10430	CAUAUAUA G UAUGCAUA	4635	UAUGCAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAUAUAUUG	23756
10434	AUAAGUAG G CAUAAAG	4636	CUUUUAUG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAUAUUA	23757
10442	GCAUAAAA G UGUAGUUU	4637	AAAUACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUAUUGC	23758
10444	AUAAGUAG G UAGUUUA	4638	UAAAAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUUUAU	23759
10447	AAAGUGUA G UUUUAUAG	4639	CUAUAUAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UACACUUU	23760
10455	GUUUUAUA G UAGUAUUU	4640	AAUAUCUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAUAAUAC	23761
10458	UUUAUGUA G UAUUUAGU	4641	ACUAAUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UACUAUAA	23762
10465	AGUAUUUA G UGGUGUUA	4642	UAACACCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAAAUACU	23763
10468	AUUUAGUG G UGUUAGUG	4643	CACUAACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUAAU	23764
10470	UUAGUGGU G UUAGUGUA	4644	UACAUAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCACUAA	23765
10474	UGGUGUUA G UGUAAUA	4645	UAUUUACA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAACACCA	23766
10476	GUGUUGU G UAAUAUGU	4646	ACUAUUUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUAAAC	23767
10483	UGUAAUA G UUAAGAAA	4647	UUUCUUAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAUUUACA	23768
10506	AGGAGAAA G UCAGGCCG	4648	CGGCCUGA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCUCCU	23769
10511	AAAGUCAG G CCGGGAAG	4649	CUUCCCGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGACUUU	23770
10519	GCGGGGAA G UUCGCGCC	4650	GGCGGGAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCCGGC	23771
10525	AAGUCCC G CCACCGGA	4651	UCCGUGGG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGGAACUU	23772
10535	CACCGGAA G UUGAGUAG	4652	CUACUCAA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCGGUG	23773
10540	GAAUGUA G UAGACGGU	4653	ACCGUCUA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAAUCU	23774
10547	AGUAGACG G UGUGCCU	4654	AGGACGCA GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGUCUACU	23775
10549	UAGACGGU G UGCGUUG	4655	GGGACGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCGUCUA	23776
10552	AGGUGGU G UCUGCGAC	4656	GUCCGAG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCACCGU	23777
10556	UGUGCCU G CCACUCAA	4657	UUAGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGACGCA	23778

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10580	AGGACUGG G UGAACAAA	4658	UUUUIUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUCCU	23779
10589	UGAACAAA G CCGCGAAG	4659	CUUCGGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUIUUA	23780
10592	ACAAAGCC G CGAAGUGA	4660	UCACUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUUUGU	23781
10597	GCCGCGAA G UGAUCCAU	4661	AUGGAUCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGCGGC	23782
10606	UGAUCCAU G UAAGCCCU	4662	AGGGCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGAUCA	23783
10610	CCAUUUA G CCUCAGA	4663	UCUGAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUAUGG	23784
10622	UCAGAAC G UCUCGGA	4664	UUCGAGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUCUGA	23785
10645	CCCAUUA G UUGUAACU	4665	AGUUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUGGGG	23786
10648	CACUAGU G UAACUUA	4666	UGAAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAUUG	23787
10659	ATUUAUA G CCCAUGU	4667	ACAUGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUAAGU	23788
10666	AGCCAAU G UCAGACCA	4668	UGGUUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGGGCU	23789
10676	CAGACCAC G CUACGGCG	4669	CGCCGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUCUG	23790
10682	ACGUACG G CGUGCUAC	4670	GUAGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUAGCGU	23791
10684	GUACGGC G UGUUACUC	4671	GAGUACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGUAGC	23792
10686	UACGGCGU G CUACUCUG	4672	CAGAGUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCCGUA	23793
10694	GUACUCU G CGGAGAGU	4673	ACUCUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGUAGC	23794
10701	UGCGAGA G UGCAGUCU	4674	AGACUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGCA	23795
10703	CGGAGAGU G CAGUCUGC	4675	GCAGACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCCG	23796
10706	AGAGUGCA G UCUGCGAU	4676	AUCGCGAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCACUCU	23797
10710	UGAGUCU G CGAUAAGU	4677	CACUACUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGACUGCA	23798
10716	CUGCGAUA G UGCCCCAG	4678	CUGGGGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUUCGAG	23799
10718	GCUAUAGU G CCCACAGA	4679	UCCUGGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAUCGC	23800
10734	AGGACUGG G UUAACAAA	4680	UUUGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUCCU	23801
10744	UAACAAAG G CAAACCAA	4681	UUUGUUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGUUA	23802
10754	AAACCAAC G CCCACGCG	4682	CGUGGGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGGUUU	23803
10761	CGCCCCAC G CGGCCCUA	4683	UAGGGCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGGGCG	23804
10764	CCACGCG G CCUAAGCC	4684	GGCUAGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGUGGG	23805
10770	CGGCCCUA G CCCCGUA	4685	UACCGGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGGGCCG	23806
10776	UAGCCCCG G UAAUGGUG	4686	CACCAUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGGCUA	23807
10782	CGUUAUG G UGUUAACC	4687	GGUUAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUAACG	23808
10784	GUUAUGGU G UUAACCAG	4688	CUGGUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAUUAC	23809
10794	UAACCAAG G CGAAAGGA	4689	UCCUUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGGUUA	23810
10809	GACUAGAG G UUAAGAGGA	4690	UCCUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUAGUC	23811
10824	CAGACCC G CGUUUUA	4691	UUAAACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGGUCUC	23812
10827	ACCCGCG G UUUAAGU	4692	ACUUAUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGGGGU	23813
10834	GGUUAAA G UGCACGGC	4693	GCACUGCA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUAACCC	23814
10836	UUUAAGU G CACGGCCC	4694	GGGCGGUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUAUAA	23815
10841	AGUCACG G CCCAGCCU	4695	AGGCVGGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGCACU	23816
10846	ACGGCCCA G CCUACUG	4696	CAGUCAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCCGU	23817
10857	UGACUGAA G CUGUAGGU	4697	ACCUACAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAGUCA	23818

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10860	CUGAAGCU G UAGGUACG	4698	CUGACCUA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUUCAG	23819
10864	AGCUGUAG G UCAGGGGA	4699	UCCCCUGA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUACAGCU	23820
10883	GACUAGAG G UUAGUGGA	4700	UCCACUAA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUAGUC	23821
10887	AGAGGUUA G UGAGAGCC	4701	GGUCUCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UAACCCUCU	23822
10898	GAGACCCC G UGCCACAA	4702	UUGUGGCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGGUCUC	23823
10900	GACCCCGU G CCACAAA	4703	UUUUGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACGGGUC	23824
10924	ACAAAACA G CAUAUUGA	4704	UCAUAUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUGU	23825
10960	GAUCUUUC G CUCUGCAC	4705	GUGCAGAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGAU	23826
10965	UCUGUCUC G CACAACCA	4706	UGGUUGUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCAGA	23827
10974	CACAACCA G CCACACGG	4707	CCGUGUGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUGUG	23828
10982	GCCACAG G CACAGUGC	4708	GCACUGUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGUGGC	23829
10987	ACGGCACA G UGCGCGGA	4709	UGGGCGCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGCCGU	23830
10989	GGCACAGU G CGCGACA	4710	UGUCGGCG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUGCC	23831
10991	CACAGUGC G CCGACAAU	4711	AUUGUCGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUGUG	23832
11001	CGACAAUG G UGGCUGGU	4712	ACCAGCCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGUCG	23833
11004	CAUUGUG G CUGGUGGU	4713	ACCACAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUUG	23834
11008	GGUGGUG G UGUGCGA	4714	UGGCACCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCCACC	23835
11011	GGCUGUG G UGCGAGAA	4715	UUCUCGCA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACAGCC	23836
11013	CUGGUGGU G CGAGACA	4716	UGUUCUGG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACCACCAG	23837
17	GCCUGUGU G AGCUGACA	5462	UGUACGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACACAGC	23838
22	UGUGAGU G ACAACUU	5463	AAGUUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCACA	23839
43	GUGUUGU G AGGAUAA	5464	UUAUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACAC	23840
45	GUUUGUGA G GAUAACA	5465	UGUUAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCACAAAC	23841
46	UUUGUGAG G AUUAACA	5466	UUGUUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUACAAA	23842
70	CACAGUGC G AGCUGUUU	5467	AAACAGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUGUG	23843
87	CUUAGCAC G AAGAUCUC	5468	GAGAUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCUAAG	23844
90	AGCAGGAA G AUCUCGAU	5469	AUCGAGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUGCU	23845
96	AAGAUCUC G AUGUCUAA	5470	UUAGACAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAGAUUUU	23846
105	AUGUCUAA G AAACNAGG	5471	CCUGUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUAAGACAU	23847
112	AGAAACCA G GAGGGCCC	5472	GGGCCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUCU	23848
113	GAACCCAG G AGGGCCCG	5473	CGGGCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUUC	23849
115	AACAGGA G GGCCCGGC	5474	GCCGGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGUU	23850
116	ACCAGGAG G GCCCGGCA	5475	UGCCGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUGGU	23851
121	GAGGGCCC G GCAAGAGC	5476	GCUCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCCCTC	23852
126	CCCGGCAA G AGCCGGGC	5477	GCCCGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCCGGG	23853
131	CAAGAGCC G GGCUGUCA	5478	UGACAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUCUUG	23854
132	AAGACCG G GCUGUCAA	5479	UUGACAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUCUUU	23855
154	UAAACGC G GAUUGCCC	5480	GGGCAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUUUA	23856
155	AAAACGC G AAUGCCCC	5481	GGGCAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUUUA	23857
177	UUGUCCUU G AUUGACU	5482	AGUCCAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGACAA	23858

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181	CCUUGAUU G GACUGAAG	5483	CUUCAGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUCAAGG	23859
182	CUUGAUUG G ACUGAAGA	5484	UCUUCAGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAUCAAG	23860
186	AUUGGACU G AAGAGGC	5485	GCCUCUUY GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGUCCAU	23861
189	GGACUGAA G AGGGCUAU	5486	AUAGCCCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCAGUCC	23862
191	ACUGAAGA G GGCUAUGU	5487	ACAUAGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUCUAGU	23863
192	CUGAAGAG G GCUAUGUU	5488	AACAAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUCUUCAG	23864
201	GCUAUGUU G AGCCUGAU	5489	AUCAGGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACAUAGC	23865
207	UUGAGCCU G AUCGACGG	5490	CCGUGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGGCUCAA	23866
211	GGCUGAGG G ACCGCAAG	5491	CUUGCCGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAUCAGCC	23867
214	UGAUCGAC G GCAAGGGG	5492	CCCCUUGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUCAUCA	23868
219	GACGGCAA G GGGCCAAU	5493	AUTGGCCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUGCCGUC	23869
220	ACGGCAAG G GGCCAAUA	5494	UAUUGCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUGCCGU	23870
221	CGGCAAGG G GCCAAUAC	5495	GUUUGGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCUUGCCG	23871
230	GCCAAUAC G AUTUGUGU	5496	ACACAAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUUUGGCC	23872
240	UUUGUGUU G GCUCUCUU	5497	AAGAGAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AACACAAA	23873
249	GCUCUCUU G GCGUUCUU	5498	AAGAACGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGAGAGC	23874
260	GUUCUUA G GUUCACAG	5499	CUGUAGC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGAAGAAC	23875
279	AUUGUCC G ACCCGAGC	5500	GCUCGGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGAGCAU	23876
284	UCCGACCC G AGCAGUGC	5501	GCACUGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GGGUCGGA	23877
294	GCAGUGCU G GAUCGAUG	5502	CAUCGATC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGCAGUC	23878
295	CAGUCUG G AUCGAUGG	5503	CCAUCGAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGCACUG	23879
299	GCUGAUC G AUGGAGAG	5504	CUCUCCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAUCCAGC	23880
302	GGAUCCAU G GAGAGGUG	5505	CACCUCUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCGAUCC	23881
303	GAUCGAUG G AGAGGUGU	5506	ACACCUCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUCGAUC	23882
305	UCGAUGGA G AGGUGUGA	5507	UCACACCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCAUUGA	23883
307	GAUGGAGA G GUUGAAGC	5508	GUUCACAC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCUCCAUC	23884
312	AGAGGUGU G AACAAACA	5509	UGUUGUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACACUCUC	23885
327	CAAAACAGC G AUGAAACA	5510	UGUUUCAU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCUGUUUG	23886
330	ACAGCGAU G AACACCU	5511	AGGUGUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCGCUU	23887
342	CACCUUCU G AGUUUUA	5512	UUAAAACU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGAAGGUG	23888
351	AGUUUUA G AAGGAACU	5513	AGUUCUUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUA AAAACU	23889
354	UUUAAGAA G GAACUAGG	5514	CUUAGUUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCUUA AA	23890
355	UUAAAGAG G AACUAGGG	5515	CCCUAGUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUCUUA A	23891
361	AGGAACUA G GACCCUUG	5516	CAAGGUCC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UAGUUCCU	23892
362	GGAACTUAG G GACCUUGA	5517	UUAAGGUC GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUAGUUC	23893
363	GAACUAGG G ACCUUGAC	5518	GUCAAGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUUAGUUC	23894
369	GGGACCUU G ACCAGUGC	5519	GCACUGGU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAGGUCCC	23895
386	UAUCAUUC G GCGAGGCU	5520	AGUCCGCG GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAUUGAUA	23896
389	CAUCCGC G GAGCUCAA	5521	UUAGGCUU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCCGAUUG	23897
390	AAUCGGCG G AGCUCAA	5522	UUUAGGCU GGA GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGCCGAUJ	23898

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405	AAACAAA G AAAGAGG	5523	CCUUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23899
410	AAAGAAA G AGGAGAA	5524	UUUCUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUUUU	23900
412	AGAAAAG G GAGGAAG	5525	CUUUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUUUU	23901
413	GAAGAAG G AGGAAGA	5526	UCUUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUUUUU	23902
415	AAAGAGA G GAAAGACC	5527	GGUCUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCUUU	23903
416	AAAGAGG G AAAGACC	5528	CGUCUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUUUU	23904
420	GGAGGAA G ACCGGAU	5529	AUUCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCUCCU	23905
424	GAAGACC G GAAUUGA	5530	UGCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUUUUC	23906
425	AAAGACG G AAUUGCA	5531	CUGCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUCUUU	23907
438	GCAGUCAU G AUUGGCU	5532	AGGCCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGACUGC	23908
442	UAUGUAU G GCCUGAUC	5533	GAUCAGG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUGA	23909
447	AUUGCCU G AUCGCCAG	5534	CUGGCGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCCAAU	23910
460	CCAGCUA G GAGCAGU	5535	AACUGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UACGUGG	23911
461	CAGCGUAG G AGCAGUA	5536	UAAUCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUACGUG	23912
487	ACUCCAA G GGAAGGUG	5537	CACCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGAAGU	23913
488	CUCCNAG G GAAGGUGA	5538	UCACCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGAAG	23914
489	UCCCAAG G AAGGUGAU	5539	AUCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUGGAA	23915
492	CAAGGAA G GUGAUGAU	5540	AUCAUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCCUUG	23916
495	GGGAAGG G AUGAUGAC	5541	GUCAUUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUUCCU	23917
498	AAGUGAU G AUGACGGU	5542	ACCGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACCUU	23918
501	GUGAUGAU G ACGUAAA	5543	UUUACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUCAC	23919
504	AUGAUGAC G GUAAAUGC	5544	GCAUUUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCAUCAU	23920
517	AUGCUACU G ACGUCACA	5545	UGUGACGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAGCAU	23921
526	ACGUCACA G AUGUCAUC	5546	GAUGACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGACGU	23922
537	GUCAUCAC G AUUCCAC	5547	GUUGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAUGAC	23923
553	CAGCUGCU G GAAAGAAC	5548	GUUCUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAGCUG	23924
554	AGCUGCUG G AAAGAAC	5549	GGUUCUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCAGCU	23925
558	GCUGGAA G AACCUAUG	5550	CAUAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCAGC	23926
575	CAUGUCA G AGCAUUG	5551	CCAUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACAAUG	23927
582	AGAGCAU G GAUGUGG	5552	CCACAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGCUCU	23928
583	GAGCAUG G AUGUGGA	5553	UCCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUGCUC	23929
588	AUGGAUGU G GGAUACAU	5554	AUGUAUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCCAU	23930
589	UGGAUGUG G GAUACAU	5555	CAUGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUCU	23931
590	GGAUGUG G AUACAUGU	5556	ACAUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACAUC	23932
601	ACAUGUG G AUGAUACU	5557	AGUAUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCACAUGU	23933
604	UGUGCGAU G AUACUAUC	5558	GAUAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGCACA	23934
619	UCACUUAU G AAUGCCCA	5559	UGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUGA	23935
636	GUGUGUC G CUUGGUAA	5560	UAUACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACAGAC	23936
640	UGUCGCU G GUAUGAU	5561	UUCUUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGACA	23937
646	CUGGUAU G AUCCAGAA	5562	UUUCUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUACAG	23938

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652	AUGAUCCA G AAGACAUC	5563	GAUGUCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UGGAUCAU	23939
655	AUCCAGAA G ACAUGCAC	5564	GUCGAUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUCUGGAU	23940
661	AAGACAUC G ACUGUUGG	5565	CCAAAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	GAUGUCUU	23941
668	CGACUGUU G GUGCACAA	5566	UUGGCAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AACAGUCG	23942
695	CUACGUGA G GUAUGGAA	5567	UUCCAUAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UGACGUAG	23943
700	UCAGGUUU G GAAGAUUC	5568	GCAUCUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AUACCCUGA	23944
701	CAGGUUUG G AAGAUCCA	5569	UGCAUUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAUACCCUG	23945
704	GUAUGGAA G AUGCACCA	5570	UGGUCAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUCUACUAC	23946
714	UGACGCAA G ACACGCCA	5571	UUGGUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUGUGGCA	23947
728	CCACUCAA G ACGCAGUC	5572	GACUGCGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUGAGUGG	23948
737	ACGCAGUC G GAGGUCAC	5573	GUGACCCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	GACUGCGU	23949
738	CGCAGUCG G AGGUCACU	5574	AGUGACCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CGACUGCG	23950
740	CAGUGGGA G GUCACUGA	5575	UCAGUGAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCCGACUG	23951
747	AGGUCACU G ACAGUGCA	5576	UGCACUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AGUGACCU	23952
756	ACAGUGCA G ACACACGG	5577	CCGUGUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UGCACUGU	23953
763	AGACACAC G GAGAAAGC	5578	GCUUUCUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	GUGUGUCU	23954
764	GACACACG G AGAAAGCA	5579	GUUUUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CGUGUGUC	23955
766	CACACGGA G AAGCACU	5580	AGUGCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCCGUGUG	23956
780	ACUCUAGC G AACAGAA	5581	UUCUUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	GCUAGAGU	23957
786	GCGAACAA G AAGGGGCG	5582	GCCCCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUGUUCGC	23958
789	AACAAGAA G GGGGCUUG	5583	CAAGCCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUCUUGUU	23959
790	ACAGAAG G GGGCUUGG	5584	CCAAGCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CUUCUUGU	23960
791	CAAGAAG G GGUUGGA	5585	UCCAAGCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CCUUCUUG	23961
792	AAGAAGG G GCUUGGAU	5586	AUCCAAGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CCUUCUUC	23962
797	GGGGGCUU G GAUGGACA	5587	UGUCCAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AAGCCCCC	23963
798	GGGGCUUG G AUGGACAG	5588	CUGUCCAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAAGCCCC	23964
801	GCUUGGAU G GACAGCAC	5589	GUGUGUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AUCCAAGC	23965
802	CUUGGAUG G ACAGCACC	5590	GGUGCGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAUCCAAG	23966
813	AGCACCAA G GCCACAAG	5591	CUUGUGGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUGGUGCU	23967
821	GGCCACAA G GUUUUUGG	5592	CCAAAUAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUGUGGCC	23968
828	AGGUUUU G GUAAAAAC	5593	GUUUUUAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AAAUACCU	23969
838	UAAAAACA G AAUCAUGG	5594	CCAUGAUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UGUUUUUA	23970
845	AGAAUCAU G GAUCUUGA	5595	UCAAGAUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AUGAUUCU	23971
846	GAUAUCU G AUCUUGAG	5596	CUCAAGAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAUGAUUC	23972
852	UGAUCAU G AGGAACCC	5597	GGGUUCCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AAGAUCUA	23973
854	GAUCUUGA G GAACCCUG	5598	CAGGUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCAAGAUU	23974
855	AUCUUGAG G AACCCUGG	5599	CCAGGGUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CUCAAGAU	23975
862	GGAAACCCU G GAUAUGCC	5600	GGCAUAUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AGGGUUCU	23976
863	GAACCCUG G AUAUGCCC	5601	GGGCAUAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAGGGUUC	23977
873	UAUGCCCU G GUUGCAGC	5602	GUUGCCAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AGGGCAUA	23978

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876	GCCUGGU G GCAGCCGU	5603	ACGGCUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCAGGC	23979
889	CCGUCAUU G GUUGGAUG	5604	CAUCCAAC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUGACGG	23980
893	CAUUGGUU G GAUGCUUG	5605	CAAGCAUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACCAAUG	23981
894	AUUGGUUG G AUGCUUGG	5606	CCAAGCAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACCAAU	23982
901	GGAGUCUU G GGAGCAAC	5607	GUUGCUCC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGCAUCC	23983
902	GAUGCUUG G GAGCAACA	5608	UGUUGCUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGCAUC	23984
903	AUGCUUG G AGCAACAC	5609	GUGUUGCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAAGCAU	23985
918	ACCAUGCA G AGAGUUGU	5610	ACAACUCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCAUGGU	23986
920	CAUGCAGA G AGUGUGU	5611	ACAACAUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGCAUG	23987
948	UUGCUUUU G GUGGCCCC	5612	GGGCCAC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAAGCAA	23988
951	CUUUGGU G GCCCAGC	5613	GTUGGGC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCAAAG	23989
979	ACUGCCUU G GAUGAGC	5614	GCUCAUUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGGCAGU	23990
980	CUGCCUUG G AAUGAGCA	5615	UGCUCAUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGGCAG	23991
984	CUUGGAU G AGCAACAG	5616	CUGUUGCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUCCAAG	23992
992	GAGCAACA G AGACUUCU	5617	AGAAGUCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUGCUC	23993
994	GCAACAGA G ACUUCUUG	5618	CAAGAAGU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGUUGC	23994
1002	GACUUCUU G GAAGGAGU	5619	ACUCCUUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGAAGUC	23995
1003	ACUUCUUG G AAGGAGUG	5620	CACUCCUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGAAGU	23996
1006	UCUUGGAA G GAGUGUCU	5621	AGACACUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCAAAG	23997
1007	CUUGGAAG G AGUGUCUG	5622	CAGACACU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCCAAAG	23998
1015	GAGUUCU G GAGCAACA	5623	UGUUGCUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGACACUC	23999
1016	AGUGUCUG G AGCAACAU	5624	AUGUUGCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGACACU	24000
1025	AGCAACAU G GGUGGAUU	5625	AAUCCACC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUGUUGCU	24001
1026	GCAACAUG G GUGGAUUU	5626	AAAUCCAC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUGUUGC	24002
1029	ACAUGGGU G GAUUUGGU	5627	ACCNAUUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCCAUGU	24003
1030	CAUGGGUG G AUUUGGUU	5628	AACCAAAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACCCAUG	24004
1035	GUGGAUUU G GUUCUCGA	5629	UCGAGAAC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAUCCAC	24005
1042	UGGUUCUC G AAGGCGAC	5630	GUCGCCUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGAACCA	24006
1045	UUUCUGAA G GCGACAGC	5631	GCUGUCGC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCGAGAA	24007
1048	UCGAAGGC G ACAGCUGC	5632	GCAGCUGU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCUUCGA	24008
1059	AGCUGCGU G ACUAUCAU	5633	AUGAUAGU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACGCAGCU	24009
1074	AUGUCUAA G GACAAGCC	5634	GGCUTGUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUAGACAU	24010
1075	UGUCUAG G ACAAGCCU	5635	AGGCUUGU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUAGACA	24011
1090	CUACCAUC G AUGUGAAG	5636	CUUCACAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUGUUG	24012
1095	AUCGAUGU G AAGAUGAU	5637	AUCAUCUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUCCAU	24013
1098	GAUGUGAA G AUGAUGAA	5638	UUAUCAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCACAUC	24014
1101	GUGAAGAU G AUGAAUUA	5639	AUAUUAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUUCAC	24015
1104	AUGAUGAU G AAUAUGGA	5640	UCCAUAUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAUCUU	24016
1110	AUGAAUAU G GAGGCGGU	5641	ACGCCUUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUAUUAU	24017
1111	UGAAUAUG G AGGCGGUC	5642	GACCGCCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAUAUUA	24018

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1113	AAUAUGGA G GCGGUCAA	5643	UUGACCGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UCCAUUUU	24019
1116	AUGGAGGC G GUCAACCU	5644	AGGUUGAC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	GCCUCCAU	24020
1125	GUCAACCU G GCAGAGGU	5645	ACCUUGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AGGUUGAC	24021
1129	ACUUGGCA G AGGUCCGC	5646	GCGACCU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UGCCAGGU	24022
1131	UUGGCGA G GUCCGAG	5647	CUUGGAC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UCUGCCAG	24023
1152	UGCUAUUU G GCUACCGU	5648	ACGUUAGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AAUAGCA	24024
1165	CCGUCAGC G AUCUCUCC	5649	GGAGAGU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	GCUGACGG	24025
1191	GCGUCCC G ACUAUGG	5650	CCUAUGU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	GGCACGC	24026
1197	CGACCAU G GGAAGAGC	5651	GCUCUCC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AGGUUCGG	24027
1198	CGACCAUG G GAGAAGCU	5652	AGCUUCUC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CAUGGUCG	24028
1199	GACCAUGG G AGAAGCUC	5653	GAGCUUCU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CCAUGGUC	24029
1201	CCAUGGGA G AAGCUCAC	5654	GUGAGCUU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UCCCAUGG	24030
1213	CUACAAU G ACAACGU	5655	ACGUUUGU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AUUGAGAG	24031
1225	AAGUGCU G ACCAGCU	5656	AGCUUGGU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AGCACGUU	24032
1244	UGUGUGCA G ACAAGGAG	5657	CUCCUUGU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UGCACACA	24033
1249	GCAGACAA G GAGUGGUG	5658	CACACUC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UUGUCUGC	24034
1250	CACACAA G GAGUGGUG	5659	CUCCACU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CUUGUCUG	24035
1254	CAGGAGU G GUGGACAG	5660	CUUGUCC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	ACUCCUUG	24036
1257	GAGUGGU G GACAGGGG	5661	CCCCUUC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	ACCACUCC	24037
1258	GAGUGGUG G ACAGGGGC	5662	GCUCUUGU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CACCACUC	24038
1262	GUUGGACA G GGGCUGGG	5663	CCAGCCC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UGUCCACC	24039
1263	GUGGACAG G GGCUGGGG	5664	CCCCAGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CUGUCCAC	24040
1264	UGACACAG G GCUUGGGC	5665	GCACCAGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CTUGUCCA	24041
1268	CAGGGGCU G GGGCAACG	5666	CGUUGCCC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AGCCCCUG	24042
1269	AGGGGCU G GCAACCG	5667	CCGUUGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CAGCCCCU	24043
1270	GGGGCUGG G GCAACGGC	5668	GCGUUGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CCAGCCCC	24044
1276	GGGGCAAC G GCUUGCGA	5669	UCCGACG GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	GUUGCCCC	24045
1282	ACGGCUGC G GAUAUUU	5670	AAUAUUC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	GCAGCCGU	24046
1283	CGCUGCG G AUUAUUU	5671	CAUAUUA GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CGCAGCCG	24047
1291	GAUAUUU G GCAAGGA	5672	UCCUUUGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AAUAUUC	24048
1297	UUGGCATA G GAAGCAU	5673	AAUGUUC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UUUGCCAA	24049
1298	UGGCAAG G AAGCAUUG	5674	CAUUGCU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CUUUGCCA	24050
1306	GAAGCAU G ACACAUC	5675	GCAUGUGU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AAUGCUUC	24051
1338	CUUACCAA G GCAUAAG	5676	CCUAUUGC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UUGGUAGA	24052
1345	AGGCAUA G GAGAACC	5677	GGUUCUUC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UAUUGCCU	24053
1346	GGCAUAG G AAGAACC	5678	UGUUCUUC GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	CUAUUGCC	24054
1349	AAUAGGAA G AACCAUCU	5679	AGAUGGUU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UUCCUAUU	24055
1359	ACCAUCU G AAAGAGAA	5680	UUCUCUUU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	AAGAUGGU	24056
1363	UCUUGAAA G AGAAUAUC	5681	GAUAUUCU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UUUCAAGA	24057
1365	UUGAAGA G AAUAUCAA	5682	UUGAUUUU GGA GCGGUUAGGC	UCCUUCUACAGGA	GCCGUUAGGC	UCCGGG	UCUUCUAA	24058

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1378	UCAAGUAC G AAGUGGC	5683	GGCCACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACUUGA	24059
1383	UACGAAGU G GCCAUUUU	5684	AAAUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCGUA	24060
1399	UUGUCAU G GACCAACU	5685	AGUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGACAA	24061
1400	UGUCCAUG G ACCAACUA	5686	UAGUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGGACA	24062
1413	ACUACUGU G GAGUCGCA	5687	UGCGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUAGU	24063
1414	CUACUGU G AGUCGCAC	5688	GUGCGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACAGUAG	24064
1423	AGUCGCAC G GAAACUAC	5689	GUAGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCGACU	24065
1424	GUCGCACG G AAACUACU	5690	AGUAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGCGAC	24066
1440	UCCACACA G GUUGGAGC	5691	GUCCCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGGA	24067
1444	CACAGGU G GAGCCACU	5692	AGUGGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCUUG	24068
1445	ACAGGUUG G AGCCACUC	5693	GAGUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACUUGU	24069
1455	GCCACUCA G GCAGGGAG	5694	CUCCGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGUGGC	24070
1459	CUCAGGCA G GGAGAUUC	5695	GAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCUGAG	24071
1460	UCAGGCAG G GAGAUUCA	5696	UGAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCCUGA	24072
1461	CAGGCAGG G AGAUUCAG	5697	CUGAAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGCCUG	24073
1463	GGCAGGGA G AUUCAGCA	5698	UGCUGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUGCC	24074
1482	ACUCCUUC G GCGCCUUC	5699	GAAGGCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGAGU	24075
1507	UAAAGCUU G GAGAAUUA	5700	AAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUUUA	24076
1508	AAAGCUUG G AGAAUUAU	5701	CAUAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGCUUU	24077
1510	AGCUUGGA G AAUAUGGA	5702	UCCAUAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAAAGCU	24078
1516	GAGAAUUA G GAGAGGUG	5703	CACCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUAUUCUC	24079
1517	AGAAUUAU G AGAGGUGA	5704	UCACCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAUUCU	24080
1519	AAUAUGGA G AGUGACA	5705	UGUCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUUUU	24081
1521	UAUGGAGA G GUGACAGU	5706	ACUGUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCCAUA	24082
1524	GGAGAGGU G ACAGUGGA	5707	UCCACUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCUCC	24083
1530	GUGACAGU G GACUGUGA	5708	UCACAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUCAC	24084
1531	UGACAGUG G ACUGUGAA	5709	UUCACAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUGUCA	24085
1537	UGGACUGU G AACCACGG	5710	CCGUGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUCCA	24086
1544	UGAACCCAC G GUCAGGGA	5711	UCCUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUUCA	24087
1549	CACGGUCA G GGAUUGAC	5712	GUCAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACCCUG	24088
1550	ACGGUCAG G GAUUGACA	5713	UGUCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGACCCU	24089
1551	CGGUCAGG G AUUGACAC	5714	GUGUCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCUGACCG	24090
1555	CAGGAUU G ACACCAAU	5715	AUUGGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCCUUG	24091
1575	UACUACGU G AUGACUGU	5716	ACAGUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGAGUA	24092
1578	UACUGAU G ACUGUUGG	5717	CAAACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACGUA	24093
1585	UGACUGU G GAACAAAG	5718	CUUUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGUCA	24094
1586	GACUGUUG G AACAAAGA	5719	UCUUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAGUC	24095
1593	GGAAACAA G ACUUUCUU	5720	AAGAACGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUGUC	24096
1602	ACGUUCUU G GUCCAUCG	5721	CGAUGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAACGU	24097
1612	UCCAUCGU G AGUGGUUC	5722	GAACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGAUGGA	24098

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1616	UCGUGAGU G GUUCAUGG	5723	CCAUGAAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUCACGA	24099
1623	UGGUUCAU G GACCUCAA	5724	UUGAGGUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUGAACCA	24100
1624	GGUUC AUG G ACCUCAAC	5725	GUUGAGGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CADGAACC	24101
1640	CCUCCCUU G GAGCAGUG	5726	CACUGCUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAGGGAGG	24102
1641	CUCCCUUG G AGCAGUGC	5727	GCACUGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAAGGGAG	24103
1651	GCAGUGCU G GAAGUACU	5728	AGUACUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCACUGC	24104
1652	CAGUGCUG G AAGUACUG	5729	CAGUACUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGCACUG	24105
1664	UACUGUGU G GAGGAACA	5730	UGUUCUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACACAGUA	24106
1665	ACUGUGUG G AGGAACAG	5731	CUGUUCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CACACAGU	24107
1667	UGUGUGGA G GAACAGAG	5732	GUGUUCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCCACACA	24108
1668	GUGUGGAG G AACAGAGA	5733	UCUCUGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCCACAC	24109
1673	GAGGAACA G AGAGACGU	5734	ACGUCUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGUUCCUC	24110
1675	GGAACAGA G AGACGUUA	5735	UAACGUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUGUUC	24111
1677	AACAGAGA G ACGUUAU	5736	AUUAACGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUCUGUU	24112
1686	ACGUUAU G GAGUUGA	5737	UCAAACUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUAACGU	24113
1687	CGUUAUUG G AGUUGAG	5738	CUCAAACU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUUAACG	24114
1693	UGGAGUUU G AGGAACCA	5739	UGGUUCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAACUCCA	24115
1695	GAGUUUGA G GAACACACA	5740	UGUGGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAAAACUC	24116
1696	AGUUUGAG G AACACAC	5741	GUGUGGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCAAAACU	24117
1710	CACGGCAC G AAGCAGUC	5742	GACUGCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUGGCGUG	24118
1722	CAGUCUGU G AUGCAUU	5743	AAUGCUAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACAGACUG	24119
1731	AUAGCAUU G GGCUCACA	5744	UGUGAGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUGCUAU	24120
1732	UAGCAUUG G GCUACAAA	5745	UUGUGAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CHAUGCUA	24121
1741	GCUCACAA G AGGGAGCU	5746	AGUCUCCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUGUGAGC	24122
1743	UCACAAAGA G GGAGCUCU	5747	AGAGCUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCUUGUGA	24123
1744	CACAAGAG G GAGCUCUG	5748	CAGAGCUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCUUGUG	24124
1745	ACAAAGAG G AGCUCUGC	5749	GCAGAGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCUCUUGU	24125
1764	CAAGCUUU G GUGGAGC	5750	GTUCCAGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAAGCUUG	24126
1768	CUUUGGCU G GAGCCAUT	5751	AAUGGCUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGCCAAAG	24127
1769	UUUGGCUU G AGCCAUTC	5752	GAAUGGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGCCAAA	24128
1782	AUUCUGU G GAAUUUUC	5753	GAAAATUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACAGGAAU	24129
1783	UUUCUGUG G AAUUUUA	5754	UGAAAATU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CACAGGAA	24130
1809	GUCAAGUU G ACGUGGG	5755	CCCAGAGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUUGAC	24131
1815	UUGACGUC G GGUCAUUU	5756	AAAUGACC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GACGUCAA	24132
1816	UGAGGUCG G GUCAUUUG	5757	CAAAUGAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CGACGUCA	24133
1824	GGUCAUUU G AAGUGUAG	5758	CUACAGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAAUGACC	24134
1832	GAAGUUA G AGUGAAGA	5759	UCUUCACU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UACACUUC	24135
1836	UGUAGAGU G AAGUUGGA	5760	UCCAUCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUCUACA	24136
1839	AGAGUGAA G AUGGAAAA	5761	UUUUCCAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCACUCU	24137
1842	GUGAAGAU G GAAAAAUU	5762	AAUUUUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUCUAC	24138

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1843	UGAAGAUG G AAAAAUUG	5763	CAAUUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAUCUUA	24139
1857	UUGCAGUU G AAGGAAAC	5764	GUUCCUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AACUGCAA	24140
1860	CAGUUGAA G GGAACAAC	5765	GUUUGUCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUCAACUG	24141
1861	AGUUGAAG G GAACAACC	5766	GUUUGUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUUCAACU	24142
1862	GUUGAAGG G AACAACCU	5767	AGGUUGUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCUUCAAC	24143
1873	CAACCUAU G GCGUCUGU	5768	ACAGACGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUAGGUUG	24144
1887	UGUUCAAA G GCUUUCAA	5769	UUGAAAGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUUGAACAA	24145
1903	AGUUUCUU G GGACUCCC	5770	GGGAGUCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAGAAACU	24146
1904	GUUUCUUG G GACUCCCG	5771	CGGAGAGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAGAAAC	24147
1905	UUUCUUGG G ACUCCCGC	5772	GCGGAGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCAAGAAA	24148
1915	CUCCCGCA G ACACAGGU	5773	ACUUGUGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCGGGGAG	24149
1921	CAGACACA G GUACAGGC	5774	GCCGUGAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGUGUCUG	24150
1927	CAGGUCAC G GCACUGUG	5775	CACAGUGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUGACCCUG	24151
1935	GGCACUGU G GUGUUGGA	5776	UCCAACAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACAGUGCC	24152
1941	GUGUGUUU G GAAUUGCA	5777	UGCAAUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AACACCAC	24153
1942	UGUGUUUG G AAUUGCAG	5778	CUGCAUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAACACCA	24154
1957	AGUACACU G GCACGGAU	5779	AUCCGUGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGUGUACU	24155
1962	ACUGGCAC G GAUGGACC	5780	GGUCCAUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUGCCAGU	24156
1963	CUGGCACG G AUGGACCU	5781	AGGUCCAU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGUGCCAG	24157
1966	GCACGGAU G GACCUUGC	5782	GCAAGUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCCUGUC	24158
1967	CACGGAGU G ACCUUGCA	5783	UGAAGUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAUCCUGG	24159
1995	UCGUCAGU G GCUUCAUU	5784	AAUGAAGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUGACGA	24160
2004	GCUUCAUU G AACGACCU	5785	AGGUUGUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUGAAGC	24161
2008	CAUUGAAC G ACCUAACG	5786	CGUUGUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUUCAAUG	24162
2022	ACGCCAGU G GGCAGAUU	5787	AAUCUGCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUGGCCU	24163
2023	CGCCAGUG G GCAGAUUG	5788	CAAUCUGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CACUGGCG	24164
2027	AGUGGGCA G AUUGGUCA	5789	UGACCAAU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGCCACU	24165
2031	GGCAGAUU G GUCACUGU	5790	ACAGUGAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUCUGCC	24166
2058	GUUUCAGU G GCACAGGC	5791	GCCGUGGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUGAARAC	24167
2064	GUGGCCAC G GCCAACGC	5792	GCGUUGGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUGGCCAC	24168
2076	AAGGCUAA G GUCCUGAU	5793	AUCAGGAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUAGCGUU	24169
2082	AAGGUCCU G AUUGAAUU	5794	AAUUCAAU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGGACCUU	24170
2086	UCCUGAUU G AAUUGGAA	5795	UUCCAAUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUCAGGA	24171
2091	AUUGAAUU G GAACCAAC	5796	GGUGUUCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUUCAAU	24172
2092	UUGAAUUG G AACACCC	5797	GGUGUUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAUUCAA	24173
2104	CACCCUUU G GAGACUCA	5798	UGAGUCUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAAGGUGU	24174
2105	ACCCUUDG G AGACUCAU	5799	AUGAGUCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAAGGUU	24175
2107	CCUUGGA G ACUCAUAC	5800	GUAGUGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCAAAGG	24176
2121	UACAUAGU G GUGGCCAG	5801	CUGCCAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUUAUGUA	24177
2124	AUAGUGGU G GGCAGAGG	5802	CCUUGCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACCACUAU	24178

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2125	UAGUGGUG G GCAGAGGA	5803	UCCUCUGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACCACUA	24179
2129	GGUGGGCA G AGGAGAAC	5804	GUUCUCCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCCCCACC	24180
2131	UGGGCAGA G GAGAACAA	5805	UUGUUCUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGCCCA	24181
2132	GGGCAGAG G AGAACAA	5806	GUUGUUCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCUGCCC	24182
2134	GCAGAGGA G AACACAG	5807	CUGUUGUU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCUGC	24183
2142	GAACAACA G AUCAAUA	5808	UGAUUGAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGUUGUUC	24184
2156	UCACCAUU G GCACAAGU	5809	ACUUGUGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUGGUGA	24185
2167	ACAAAGUC G GAAGCAGC	5810	GCUGCUUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGACUUGU	24186
2168	CAAGUCUG G AAGCAGCA	5811	UGCUGCUU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGACUUG	24187
2179	GCAGCAUU G GCAAGGCC	5812	GGCUUUGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUGCUGC	24188
2206	CCUCUAAA G GAGCGCAG	5813	UCUGCGUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGAGGG	24189
2207	CCUCAAG G AGCGCAGA	5814	UCUGCGUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGAGGG	24190
2214	GGAGCGCA G AGACUAGC	5815	GCUAGUCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGCGCUCC	24191
2216	AGCGCAGA G ACUAGCCG	5816	CGGCUAGU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGGCGU	24192
2230	CCGUCUUA G GAGACACA	5817	UGUGUCUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGAGCGG	24193
2231	CGCUCUAG G AGACACAG	5818	CUGUGUCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUAGAGCG	24194
2233	CUCUAGGA G ACACAGCU	5819	AGCUGUGU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUAGAG	24195
2243	CACAGCUU G GGACUUUG	5820	CAAGAUCC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAGCUGU	24196
2244	ACAGCUG G GACUUUGG	5821	CCAAAGUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAGCUGU	24197
2245	CAGCUUG G ACUUUGGA	5822	UCCAAAGU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGCUGU	24198
2251	GGGACTUU G GAUCAGUU	5823	AACGAUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAGUCCC	24199
2252	GGACUUUG G AUACAGUUG	5824	CAACUGAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAGUCC	24200
2260	GAUCAGUU G GAGGGGUG	5825	CACCCUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACUGAU	24201
2261	AUCAGUUG G AGGGGUGU	5826	ACACCCUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACUGAU	24202
2263	CAGUUGGA G GGGUGUUC	5827	GAACACCC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAACUG	24203
2264	AGUUGGAG G GGUGUUCA	5828	UGAACACC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCAAACU	24204
2265	GUUGGAGG G GUGUUCAC	5829	GUGAACAC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUCCAAC	24205
2281	CCUCAGUU G GGAAGGCU	5830	AGCUUCC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACUGAG	24206
2282	CUCAGUUG G GAAGGCUG	5831	CAGCUUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACUGAG	24207
2283	UCAGUUGG G AAGGCUUG	5832	ACAGCUU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAACUGA	24208
2286	GUUGGGAA G GCUGUCCA	5833	UGGACAGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCCAAC	24209
2305	AAGUUCUC G GAGAGACA	5834	UGCUUCC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAACACUU	24210
2306	AGUGUUCG G AGGAGCAU	5835	AUGUCCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGAACACU	24211
2308	UGUUCGGA G GAGCAUUC	5836	GAAUGUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGAACA	24212
2309	GUUCGGAG G AGCAUUCU	5837	GGAUGUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCGAAC	24213
2329	ACUGUUC G GAGGCAUG	5838	CAUGCCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAACAGUG	24214
2330	CUGUUCG G AGGCAUGU	5839	ACAUGCCU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGAACAGU	24215
2332	UGUUCGGA G GCAUGUCC	5840	GGACAUGC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGAACA	24216
2342	CAUGUCCU G GAUAACGC	5841	GCGUAUC GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGACAU	24217
2343	AUGUCCUG G AUAACGCA	5842	UGCGUUAU GGA GCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGACAU	24218

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2353	UACGCCAA G GAUUGCUG	5843	CAGCAUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UUGCGUUA	24219
2354	AACGCAAG G AUUGCUGG	5844	CCAGCAAU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CUUGCGUU	24220
2361	GGAUUGCU G GGGGCUUC	5845	AGAGCCCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGCAAUCC	24221
2362	GAUUGCUG G GGGCUCUC	5846	GAGAGCCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAGCAUUC	24222
2363	AUUGCUGG G GGCUCUCC	5847	GGAGAGCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCAGCAAU	24223
2364	UUGCUGGG G GCUUCUCCU	5848	AGGAGAGC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCCAGCAA	24224
2378	CUUGUUGU G GAUGGGCA	5849	UGCCCAUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACAACAGG	24225
2379	CUUGUUGU G AUGGGCAU	5850	AUGCCCAU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CACAACAG	24226
2382	UUGUGGAU G GCAUCAAA	5851	UUGAUGCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AUCCACAA	24227
2383	UUGUGGAU G GCAUCAAU	5852	AUUGAUGC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAUCCACA	24228
2398	AUGUCUGU G AUAGGUCC	5853	GGACUAUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACAGGCAU	24229
2402	UUGUGUAU G GUCCAUG	5854	CUAUGGAC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UAUACAGA	24230
2431	UCGCAGUU G GAGGAGUU	5855	AACUCCUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AACUGCGA	24231
2432	CGCAGUUG G AGGAGUUC	5856	GAAUCUCCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAACUGCG	24232
2434	CAGUUGGA G GAGUUCUG	5857	CAGAACUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCCAAACUG	24233
2435	AGUUGGAG G AGUUCUGC	5858	GCAGAACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CUCCAACU	24234
2457	CUUCUCCU G AACUGGCA	5859	UGCACGUU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACGGAGAG	24235
2470	UGCACGCU G ACACUGGG	5860	CCACAGUU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGCGUGCA	24236
2476	CUGACACU G AGUGUGCC	5861	GGCACACC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGUUCAG	24237
2477	UGACACUG G GUGUGCCA	5862	UUGCACAC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAGUUGCA	24238
2488	GUGCCAUU G ACAUCAGC	5863	GCUGAUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UAUUGCAC	24239
2498	CAUCAGCC G GCAAGAGC	5864	GCUCUUGC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GGCUGAUG	24240
2503	GCCGGCAA G AGCUGAGA	5865	UCUCAGCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UUGCCGGC	24241
2508	CAAGAGCU G AGAUGUGG	5866	CCACAUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGUCUUG	24242
2510	AGAGCUGA G AUGUGGAA	5867	UUCACACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCAGCUCU	24243
2515	UGAGAUGU G GAAGUGGA	5868	UCCACAUU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACAUCUCA	24244
2516	GAGAUGUG G AAGUGGAG	5869	CUCCACUU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CACAUCUC	24245
2521	GUGGAAGU G GAGUGUUC	5870	GAAACACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACUUCAC	24246
2522	UGGAAGUG G AGUGUICA	5871	UGAACACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CACUCCA	24247
2539	UACACAAU G AUGUGGAG	5872	CUCCACAU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AUUGUGUA	24248
2544	AAUGAUGU G GAGGCUUG	5873	CAAGCCUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACAUCAU	24249
2545	AUGAUGUG G AGGCUUGG	5874	CCAAGCCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CACAUCU	24250
2547	GAUGUGGA G GCUUGGAU	5875	AUCCAAGC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCCACAUC	24251
2552	GGAGGCUU G GAUGGACC	5876	GGUCCAUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AAGCCUCC	24252
2553	GAGGCUUG G AUGGACCG	5877	CGGUCCAU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAAGCCUC	24253
2556	GCUUGAU G GACCGGUA	5878	UACCGGUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AUCCAAGC	24254
2557	CUUGGAUG G ACCGGUAC	5879	GUACCGGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAUCCAAG	24255
2561	GAUGGACC G GUACAAGU	5880	ACUUGUAC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GGUCCAUC	24256
2578	AUAACCCU G AAACGCCA	5881	UGGCGUUG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGGGUAAU	24257
2590	CGCCACAA G GCCUAGCC	5882	GGCUAGGC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UUGUGGCG	24258

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2601	CUAGCCAA G AUCAUUCA	5883	UGAAUGAU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUGGCUAG	24259
2610	AUCAUUA G AAAGCUCA	5884	UGAGCUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGAAUGAU	24260
2622	GCUCAUAA G GAAGGAGU	5885	ACUCCUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUAUGAGC	24261
2623	CUCAUAA G AAGGAGUG	5886	CACUCCUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUUAUGAG	24262
2626	AUAAGGAA G GAGUGUGC	5887	GCACACUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUCUUUAU	24263
2627	UAAGGAAG G AGUGUGCG	5888	CGCACACU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUUCCUUA	24264
2635	GAGUGUG G GUCUACGA	5889	UCGUAGAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCACACUC	24265
2642	CGGCUAC G AUCAGUUU	5890	AAACUGAU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUAGACCG	24266
2654	AGUUUCCA G ACUGGAGC	5891	GTUCCAGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGGAACAU	24267
2658	UCCAGACU G GAGCAUCA	5892	UUGAUGUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGUCUGGA	24268
2659	CCAGACUG G AGCAUCA	5893	UUGAUGUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAGUCUGG	24269
2672	UCAAAUUG G GGAAGCAG	5894	CUUCUCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACAUUUGA	24270
2673	CAAAUGUG G GAAGCAGU	5895	ACUGCUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CACAUUUG	24271
2674	AAUUGUG G AAGCAGUG	5896	CACUGCUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCACAUUU	24272
2682	GAAGCAGU G AAGNACGA	5897	UCGUCCUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACUGCUUC	24273
2685	GCAGUGAA G GACGAGCU	5898	AGUCUGUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUCACUUC	24274
2686	CAGUGAAG G ACGAGCUG	5899	CAGCUGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUUCACUG	24275
2689	UGAAGGAC G AGCUGAAC	5900	GUUCAGCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUCCUUA	24276
2694	ACUGGCU G AACACUCU	5901	AGAGUGUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCUCUGC	24277
2706	ACUCUUU G AAGGAGAA	5902	UUCUCUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAAAGAGU	24278
2709	CUUUUGAA G GAGAAUGG	5903	CCAUCUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUCAAAAG	24279
2710	UUUUGAAG G AGAAUGGU	5904	ACCAUUCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUUCAA	24280
2712	UUGAAGGA G AAUGGUGU	5905	ACACAUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCUCAA	24281
2716	AGGAGAAU G GUGUGGAC	5906	GUCCACAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUUUCUU	24282
2721	AAUGGUGU G GACCUUAG	5907	CUAAGGUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACACCAU	24283
2722	AUGGUGUG G ACCUUAGU	5908	ACUAAGGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CACACCAU	24284
2736	AGUGUCGU G GUUGAGAA	5909	UUCUAAAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACGACAU	24285
2740	UCGUGGUU G AGAACAAG	5910	CUGUUUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AACCACGA	24286
2742	GUGGUUGA G AAACAGGA	5911	UCCUGUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCAACCAC	24287
2748	GAGAAACA G GAGGAAU	5912	AUUCUCCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGUUUCUC	24288
2749	AGAAACAG G AGGAAUG	5913	CAUUCUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUGUUUCU	24289
2751	AAACAGGA G GGAUGUA	5914	UACAUUCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCUGUUU	24290
2752	AACAGGAG G GAAUGUAC	5915	GUACHAUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUCCUGUU	24291
2753	ACAGGAGG G AAUGUACA	5916	UGUACAUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GCUCUUGU	24292
2793	GCCACCAC G GAAAUUU	5917	AAUUUUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUGUGGCG	24293
2794	CCACCACG G AAAAUUG	5918	CAAUUUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CGUGGUGG	24294
2802	AAAAAUU G GAAUUGG	5919	CCAUUUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUUUUUC	24295
2803	AAAAAUUG G AAUUGGC	5920	GCCAAUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAUUUUU	24296
2809	UGGAAAUU G GCUGGAAG	5921	CUUCACGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAUUUCCA	24297
2813	AAUUGGCU G GAAGGCCU	5922	AGGCCUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCCAAU	24298

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2814	AUUGGCU G AAGGCCUG	5923	CAGCCUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGCCAAU	24299
2817	GGCUGGAA G GCUGGGG	5924	CCCAGGC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGCC	24300
2822	GAAGGCCU G GGAAGA	5925	UCUUUCC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGCCUUC	24301
2823	AAGGCCUG G GGAAGAG	5926	CUCUUCC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGCCUU	24302
2824	AGGCCUGG G GAAAGAGU	5927	ACUCUUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGGCCU	24303
2825	GGCCUGG G AAGAGUA	5928	UACUUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCCAGGCC	24304
2829	UGGGGAAA G AGUAUUU	5929	AAAUACU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCCA	24305
2848	UUGCACCA G AACUGCC	5930	GGGAGUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUGCAA	24306
2871	ACUUUGU G GUUGUGG	5931	CCAUAAC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAAAGGU	24307
2875	UUGUGGUU G AUGGUCCG	5932	CGGACCAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AACCAAA	24308
2878	UGUUGAU G GUCCGGAG	5933	CUCGGAC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCAACCA	24309
2883	GAUGUCC G GAGACCA	5934	UUGGUCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGACCAUC	24310
2884	AUGGUCC G AGACCAAG	5935	CUUGGUCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGGACCAU	24311
2886	GUUCCGGA G ACCAAGGA	5936	UCCUUGU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGGACC	24312
2892	GAGACCA G GAUUGUC	5937	GGACAUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUGGUCUC	24313
2893	AGACCAAG G AAUGUCCG	5938	CGGACAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUGGUUCU	24314
2901	GAUUGCC G ACUCAGAA	5939	UUCUGAGU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGACAUUC	24315
2907	CGGACUCA G AAUCGCGC	5940	GGCGAUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGAGUCGG	24316
2918	UCGCGCUU G GAUAGCU	5941	AGCUAUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGCGCA	24317
2919	CGCGCUU G AAUAGCUU	5942	AAGCUAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAAGCGCG	24318
2929	AUAGCUUA G AAUGGAG	5943	CUCCACU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAAGCUAU	24319
2934	UAAGAAGU G GAGGAUUU	5944	AAAUCCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACTUUCUA	24320
2935	UAGAAGUG G AGGAUUUU	5945	AAAUCCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUUCUA	24321
2937	GAAGUGA G GAUUUUG	5946	CCAAAUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACUUC	24322
2938	AAGUGGAG G AUUUUGGA	5947	UCCAAAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCACUU	24323
2944	AGGAUUU G GAUUUGGU	5948	ACCAAUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAUCU	24324
2945	GAUUUUU G AUUUGGUC	5949	GACCAAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAAUCC	24325
2950	UUGGAUU G GUCUCACC	5950	GGUGAGC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAAUCCAA	24326
2966	CAGCACUC G GAUGUCC	5951	GGACACU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGUGCUG	24327
2967	AGCACUC G AUGUCCU	5952	AGGAACAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGAGUGCU	24328
2976	AUGUCCU G AAGGUCAG	5953	CUGACCUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGAACAU	24329
2979	UUCUGAA G GUCAGAGA	5954	UCUCUGAC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCAGGAA	24330
2984	GAAGGUCA G AGAGAGCA	5955	UGCUCUCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACCUUC	24331
2986	AGGUCAGA G AGAGCAAC	5956	GUUGUCUCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUGACCU	24332
2988	GUCAGAGA G AGCAACAC	5957	GUGUUGCU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUCUGAC	24333
3001	ACACAACU G AAUGUGAC	5958	GUACACAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUUGUGU	24334
3007	UGGAUUGU G ACUCGAG	5959	CUUGAGU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACAUUCAG	24335
3012	UGUAUGU G AAGAUCAU	5960	AUGAUUU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGUACAC	24336
3015	GACUCGAA G AUCAUUG	5961	CCAAUGAU GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCGAGUC	24337
3022	AGAUCAUU G GAAACGGCU	5962	AGCCGUUC GGA GCCGUUAGGC	UCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUGAUUCU	24338

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3023	GAUCAUUG G AACGGCUG	5963	CAGCCGUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUGAUC	24339
3027	AUUGAAC G GCUGUCAA	5964	UUGACAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCAAU	24340
3036	GCUGUCAA G AACAAU	5965	AAGUUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACAGC	24341
3045	AACAAU G GCAGUCCA	5966	UGGAUCGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUUGU	24342
3048	AACUUGGC G AUCCACAG	5967	CUGUGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCCAAU	24343
3058	UCCACAGU G ACCUGUC	5968	GGACAGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGUGGA	24344
3071	GUCCUAU G GAUUGAA	5969	UUUCAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAGGAC	24345
3072	UCCUAU G AUUGAAG	5970	CUUCAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUAGGA	24346
3076	AUUGGAU G AAAGCAGG	5971	CCUGCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCAAU	24347
3083	UGAAGCA G GUCUAU	5972	CAUAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUAU	24348
3091	GGCUCAA G AUACGUG	5973	CCACGUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUAGCC	24349
3098	UGAUACG G GAAGCUUG	5974	CAAGCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUAU	24350
3099	GAUACGUG G AAGCUUGA	5975	UCAAGCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUAUC	24351
3106	GGAAGCUU G AAAGGCA	5976	UGCCUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUUC	24352
3110	GUUGAAA G GGCAGUUC	5977	GAACUGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCAAGC	24353
3111	CUUGAAAG G GCAGUUCU	5978	AGAACUGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUAAG	24354
3120	GCAGUUCU G GGUGAAGU	5979	ACUACACC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAACUGC	24355
3121	CAGUUCUG G GUGAAGUC	5980	GAUUCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAACUG	24356
3124	UUCUGGU G AAGUCAAA	5981	UUUGACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAGAA	24357
3143	AUGUACG G GCCUGAGA	5982	UCUACAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUAU	24358
3148	CGUGGCU G AGACGCAU	5983	AUGCGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCCACG	24359
3150	UGGCCUGA G ACGCAUAC	5984	GUUAGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGGCCA	24360
3164	UACCUUGU G GGGCGAUG	5985	CAUCGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAAGUA	24361
3165	ACCUUGUG G GGCAGUGG	5986	CCAUCGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACAAGGU	24362
3166	CCUUGUG G GCGAUGGA	5987	UCCAUCGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCACAAGG	24363
3169	UGUGGGC G AUGGAUUC	5988	GAUUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCCCCACA	24364
3172	GGGCGAU G GAUCCUU	5989	AAGGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGCCCC	24365
3173	GGGCGAUG G AAUCCUUG	5990	CAAGGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGCCCC	24366
3181	GAUCCUU G AGAGUGAC	5991	GUCAUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGAUUC	24367
3183	AUCCUUGA G AGUGACUU	5992	AAGUCACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGGAU	24368
3187	UUGAGAGU G ACUUGAU	5993	UAUCAAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUCAA	24369
3192	AGUGACU G AUAUAUCC	5994	GGUAUUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUCACU	24370
3210	GUACACU G GCGGACC	5995	GGUCCGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGAGAC	24371
3213	ACACUGGC G GGACCACG	5996	CGUGGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCACUGU	24372
3214	CACUGGC G GACCACGA	5997	UCUGGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGCCAGUG	24373
3215	ACUGGGG G ACCAGGAA	5998	UUCUGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCCAGU	24374
3221	GGGACCAC G AAGCAAUC	5999	GAUUGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGUCCC	24375
3236	UCAAUUC G GAGACUUG	6000	CAGGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUGUGA	24376
3237	CACAAUC G AGACUUG	6001	CCAGUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUUGUG	24377
3239	CAAUCGGA G ACCUGGU	6002	ACCAGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAUUG	24378

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3244	GGAGACCU G GGUACAAG	6003	CUUGUACC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUUCC	24379
3245	GAGACCU G GUACAAGA	6004	UUUGUAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAGGUUCC	24380
3252	GGUACNA G ACACAAA	6005	UUUGUAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUACCC	24381
3264	CAAACCA G GGCCCAUG	6006	CAUGGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUUG	24382
3265	AAACCCAG G GCCAUGG	6007	CAUGGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUUUU	24383
3272	GGGCCCAU G GGACGAAG	6008	CUUCGUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGGCCC	24384
3273	GGCCCAUG G GACGAAGG	6009	CCUUCGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGGGCC	24385
3274	GCCCAUGG G ACGAAGC	6010	GCCUUCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGGGC	24386
3277	CAUGGGAC G AAGGCCG	6011	CGGGCCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUCCCAUG	24387
3280	GGGACGAA G GCCGGGUA	6012	UACCCGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUCCC	24388
3284	CGAAGGCC G GGUAGAGA	6013	UCUCUACC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGCCUUCG	24389
3285	GAAGCCG G GUAGAGAU	6014	AUCUCUAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCCUUC	24390
3289	GCCGGGUA G AGAUAGAC	6015	GUCAUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UACCCGGC	24391
3291	CGGGUAGA G AUUGACUU	6016	AAGUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCACCCG	24392
3295	UAGAGAUU G ACUUCGAU	6017	AUCGAAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCUCUA	24393
3301	UUGACUUC G AUUACUGC	6018	GCAGUAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAAGUCA	24394
3313	ACUGCCCA G GAACUACG	6019	CGUAGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGCAGU	24395
3314	CUGCCCA G AACUACGG	6020	CCGUAGUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGCAG	24396
3321	GGAAUCAC G GUCACCCU	6021	AGGGUGAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUAGUUC	24397
3330	GUCACCCU G AGUGAGAG	6022	CUUCACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUGAC	24398
3334	CCUGAGU G AGUGUGC	6023	GCAGCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACGG	24399
3336	CUGAGUGA G AGUGCGG	6024	CCGCAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCACUCAG	24400
3343	AGAGUGC G GACACCGU	6025	ACGGUGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGUCU	24401
3344	GAGCUGCG G ACACCGUG	6026	CACGUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGCAGCUC	24402
3352	GACACCGU G GACUCCG	6027	GCAGGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACGGUGUC	24403
3353	ACACCGUG G ACCUGCA	6028	UGGCAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACGUGU	24404
3376	CCACCACA G AGAGCGA	6029	UCCGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGUGG	24405
3378	ACCACAGA G AGCGGAA	6030	UUUCCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGUGGU	24406
3382	CAGAGAGC G GAAAGUUG	6031	CAACUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCUCUG	24407
3383	AGAGAGCG G AAAGUUGA	6032	UCAAUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUCUCU	24408
3390	GGAAAGUU G AUAACAGA	6033	UCUGUUA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACUUCC	24409
3397	UGAUAACA G AUTGGUGC	6034	GCACCAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAUCA	24410
3401	AACAGAUU G GUGCUGCA	6035	UGCAGCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCUGUU	24411
3410	GUGCUGCA G GAGCUGCA	6036	UGCAGCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGACAGAC	24412
3411	UGCUGCAG G AGCUGCAC	6037	GUGCAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCAGCA	24413
3445	ACCAAACT G ACAGCGGC	6038	GCCGCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUGGU	24414
3451	CUGACAGC G GCUGUUGG	6039	CCAACAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCUGUCAG	24415
3458	CGGUGUUU G GUAUGGUA	6040	UACCAUAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGCCG	24416
3463	GUUGUAU G GUAUGGAG	6041	CUCCAUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCAAC	24417
3468	UAUGUAU G GAGAUACG	6042	CUGAUUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCAUA	24418

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3469	AUGGUAUG G AGAUCAGA	6043	UCUGAUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUACCAU	24419
3471	GGUAUGGA G AUCAGACC	6044	GGUCUGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAUACC	24420
3476	GGAGAUCA G ACCACAGA	6045	UCUGUGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGAUCUCC	24421
3483	AGACCACA G AGACAUGA	6046	UCAUGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGUCU	24422
3485	ACCACAGA G ACAUGAUG	6047	CAUCAUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGUGU	24423
3490	AGAGACAU G AUGAAAG	6048	CUUUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUCUCU	24424
3493	GACAUGAU G AAAAGACC	6049	GGUCUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUGUC	24425
3498	GAUGAAA G ACCUCUGU	6050	ACGAGGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUCAUC	24426
3519	UCACAAU G AAUGCUUA	6051	UAAGCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUGUGA	24427
3535	AUAUGCU G AUAUGAUU	6052	AAUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAUUAU	24428
3540	GTUGAUU G AUAGACCC	6053	GGUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUAUCAGC	24429
3544	AUAUGAUU G ACCCUUUU	6054	AAAAGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAUUA	24430
3558	UUUCAGUU G GGCCUUCU	6055	AGAAGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACUGAAA	24431
3559	UUCAGUUG G GCCUUCUG	6056	CAGAAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAACUGAA	24432
3567	GGCUUCU G GUUGUGUU	6057	AACACGAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGGCC	24433
3579	GUUUCUU G GCCACCCA	6058	UGGUGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAACAC	24434
3588	GCCACCCA G GAGGUCCU	6059	AGGACCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUGGC	24435
3591	CCACCAG G AGGUCCUU	6060	AAGGACCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUGG	24436
3599	ACCAGGA G GUCCUUCG	6061	GCAAGAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGGU	24437
3603	CUUCGAA G AGUGGAC	6062	GUCCACCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCGAAG	24438
3605	UCGCAAG G GUGGACAG	6063	CUGUCCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGCGA	24439
3608	CAAGAGU G GACAGCCA	6064	UGGUCUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCUUG	24440
3609	AAGAGUG G ACAGCCAA	6065	UUGGUCUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACCUCUU	24441
3618	ACAGCCAA G AUCAGCAU	6066	AUGCUGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGUCUG	24442
3639	GUUACU G AUUGUCUU	6067	AGAGCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAUAGC	24443
3657	CUAGUCCU G GUGUUGG	6068	CCAAACAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGACUAG	24444
3664	UGGUGUUU G GGGGCAUU	6069	AAUGCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAACACCA	24445
3665	GGUGUUG G GGGCAUUA	6070	UAUAGCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAACACAC	24446
3666	GUGUUGG G GGCAUUAU	6071	GUAAUGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCAACAC	24447
3667	UGUUGGG G GCAUUAU	6072	AGUAUUGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCCAAACA	24448
3682	CUUACAU G AUGUGUUA	6073	UAACAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGUAAG	24449
3705	GUCAUCUU G GUGGGGCG	6074	GCCCCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAUGAC	24450
3708	AUCUUGU G GGGGCAGC	6075	GCUGCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAAGAU	24451
3709	UCUUGUG G GGGCAGCU	6076	AGCUGCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAAGA	24452
3710	CUUGUGG G GGACGUU	6077	AAGUGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCACCAAG	24453
3711	UUGUGGG G GCAGCUUU	6078	AAAGUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGACCAA	24454
3724	CUUUGCA G AAUCUAAU	6079	AUAAGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCGGAAAG	24455
3735	UCUAAUC G GGAGAGA	6080	UCUCCUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GRAUUAAG	24456
3736	CUAAUUC G GAGAGAC	6081	GUUCUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGAAUUAU	24457
3737	UAUUCGG G AGGAGACG	6082	CGUCUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGAAUUA	24458

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3739	AUUCGGGA G GAGACGUG	6083	CACGUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCGAAU	24459
3740	UUCGGGAG G AGACGUGG	6084	CCACGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCGAA	24460
3742	CGGAGGA G ACUGGUA	6085	UACCACGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCCGG	24461
3747	GGAGACGU G GUACACUU	6086	AAGUGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGUCUCC	24462
3756	GUACACUU G GCGUCAU	6087	AUGAGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUGUAC	24463
3765	GCGUCAU G GCGACCUU	6088	AAGGUCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAGCGC	24464
3768	CUCAUAGC G ACCUCAA	6089	UUGAAGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCAUGAG	24465
3777	ACUUCGA G AUACAACC	6090	GUUGGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAAGGU	24466
3795	GUGUUUUAU G GUGGCAUC	6091	GAUGCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUAAACAC	24467
3798	UUUAUGGU G GCAUCGUU	6092	AACGAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAUAUA	24468
3816	CUCAAAGC G AGAUGGAC	6093	GUCCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUUGAG	24469
3818	CAAGCGA G AUGGACCA	6094	UGGUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGUUUUG	24470
3821	AGGAGAU G GACCAACC	6095	GGUUGGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCGCU	24471
3822	GCGAGAU G ACCAACC	6096	UGGUUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUCGC	24472
3831	ACCAACCA G GAGAACA	6097	AUGUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUGGU	24473
3832	CCAACCA G AGAACAUA	6098	AAUGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUGG	24474
3834	AACACCA G AACAUAUU	6099	AAAUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGUU	24475
3846	AUUUUGU G AUGUUGC	6100	GCCAACA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAAAU	24476
3852	UUGAUGU G GCGGCGU	6101	ACAGCCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAUCAA	24477
3855	AUGUUGC G GUGUUAU	6102	AAACAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCAACAU	24478
3873	UUUCAAU G GCUUAUCA	6103	UGAUAAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUGAAA	24479
3883	CUUAUCAC G AUGCCCGC	6104	GCGGGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAUUAG	24480
3905	UCUGUCU G GGAGAUCC	6105	GAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGCAGA	24481
3906	CUGCUCU G GAGAUCUC	6106	GGGAUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAGCAG	24482
3907	UGCUCUG G AGAUCCCU	6107	AGGAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGAGCA	24483
3909	UCUGGGA G AUCCCUGA	6108	UCAGGGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCAGAG	24484
3916	AGAUCCU G AUGUGUUG	6109	CAACACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGGAUCU	24485
3924	GAUGUGU G AAUUCACU	6110	AGUGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACACAUC	24486
3933	AAUUCACU G GCGGUAGC	6111	GUACCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGAAU	24487
3936	UCACUGGC G GUAGCUUG	6112	CAAGCUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCAGUGA	24488
3944	GGUAGCUU G GAUGAUAC	6113	GUUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUACC	24489
3945	GUAGCUUG G AUGAUACU	6114	AGUAUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGCUAC	24490
3948	GCUUGGAU G AUACUGAG	6115	CUAGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAAGC	24491
3954	AUGAUACU G AGAGCCAU	6116	AUGGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAUCAU	24492
3956	GAUACUGA G AGCCAUAA	6117	UUUUGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGUAUC	24493
3975	UUCACAAC G ACAUCAAA	6118	UUUGAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGUGAA	24494
3987	UCAAAGU G GUUGUUC	6119	GGAAACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGUUUGA	24495
4018	UAACACCC G GGCUGAGA	6120	UCUCAGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGUGUUA	24496
4019	AACACCG G GCUAGAU	6121	AUCUCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUGUUU	24497
4023	CCCGGGCU G AGAUGCUU	6122	AAGCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCCGGG	24498

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4025	CGGGCUGA G AUGCUUGA	6123	UCAAAGAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UCAGCCCG	24499
4032	AGAUGCUG G AAUCUGGA	6124	UCCAGAUU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AAGCAUCU	24500
4038	UGAAUUCU G GAUGUGUA	6125	UACAACUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AGAUUCA	24501
4039	UGAAUCUG G AUGUGUAC	6126	GUACACAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CAGAUUCA	24502
4049	UGUGUACA G GAUACUGC	6127	GCAGUUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UGUACACA	24503
4050	GUUATACAG G AUACUGCU	6128	AGAGUAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CUGUACAC	24504
4062	CUGCUGU G AUGGUCGG	6129	CCGACCAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AACAGCAG	24505
4065	CUGUUGAU G GUCCGAU	6130	AUUCGAC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AUCAACAG	24506
4069	UGAUGGUC G GAUAGGC	6131	GCCUAUUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG GACCAUCA	24507
4070	GAUGGUC G AAUAGGCA	6132	UGCCUAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CGACCAUC	24508
4075	UCGGAUA G GCAGCUUG	6133	CACGUGC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UAUCCGA	24509
4083	GCAGCUU G AUCAGGGA	6134	UCCUCU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AAGCUGCC	24510
4088	CUUGAUC G GGAGAAGA	6135	UCUUCUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UGAUCAAG	24511
4089	UUGAUCAG G GAGAAGAG	6136	CUUUCUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CUGAUCAA	24512
4090	UGAUCAGG G AGAAGAG	6137	CCUUCUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CCUGAUA	24513
4092	AUCAGGGA G AAGAGGAG	6138	CUUCUCU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UCCUGAU	24514
4095	AGGAGAA G AGGAGUGC	6139	GCACUCU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UUCUCUCU	24515
4097	GGAGAAG G GAGUGCAG	6140	CUGACUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UCUUCUCC	24516
4098	GGAAGAG G AGUGCAGC	6141	GUUCACU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CUUCUCUC	24517
4116	GCAAAAA G AAGGAGC	6142	GUUCUCU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UUUUUUGC	24518
4120	AAAGAAA G GAGCAAGU	6143	ACUUGCUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UUUUCUUU	24519
4121	AAAGAAAG G AGCAAGUC	6144	GACUUGC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CUUUCUUU	24520
4140	CUAUGCUU G GCUUAGC	6145	GUAGAGC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AAGCAUAG	24521
4156	CCUCAACA G GACUUUC	6146	GAAGAUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UGUUGAGG	24522
4157	CUCAACAG G ACUUUUA	6147	UGAAAAGU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CUGUUGAG	24523
4173	AACCCCAU G AUCCUUGC	6148	GCAAGGAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AUGGGGUU	24524
4186	UUGCUGCU G GACUGAUU	6149	AAUCAGUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AGCAGCAA	24525
4187	UUGCUGUG G ACUGAUDG	6150	CAUACAGU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CAGCAGCA	24526
4191	GTUGGACU G AUUGCAUG	6151	CAUGCAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AGUCCAGC	24527
4201	UUGCAUGU G AUCCCAAC	6152	GUUGGGAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG ACAUGCAA	24528
4219	GUAAACGC G GAUGGCC	6153	GGGCCAUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG GCGUUUAC	24529
4220	UAAACGGG G AUGGCCCG	6154	CGGGCCAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG CGCGUUUA	24530
4223	ACGCGGAU G GCCCGCAA	6155	UUGCGGGC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AUCCGCGU	24531
4234	CCGCAUCU G AAGUGAUG	6156	CAUCACUU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AGUUGCGG	24532
4239	ACUGAAGU G AUGACAGC	6157	GCUGUCAU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG ACUUCAGU	24533
4242	GAAGUGAU G ACAGCUGU	6158	ACAGCUGU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG AUCACUUC	24534
4252	CAGCUGUC G GCCUAUUG	6159	CAUAGGC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG GACAGCUG	24535
4273	CCAUCGUC G GAGGGCUG	6160	CAGCCUC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG GACGAUGG	24536
4274	CAUCGUCG G AGGGCUGG	6161	CCAGCCCU GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG GCACGAUG	24537
4276	UCGUCGGA G GCGUGGCA	6162	UGCCAGCC GGA GCGGUUAGGC	UCCCUUCAAGGA GCGGUUAGGC	UCCGGG UCCGACGA	24538

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4277	CGUCGGAG G GCUGGCAG	6163	CUGCCAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCGACG	24539
4281	GGAGGGCU G GCAGAGCU	6164	AGCUCUCG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCUCC	24540
4285	GGCTUGGA G AGCTUGAC	6165	GUCAAGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCAGCC	24541
4291	CAGAGCUU G ACAUUGAC	6166	GUCAAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCUCUG	24542
4297	UUGACAUU G ACUCCAU	6167	CAUGGAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGUCAA	24543
4305	GACUCCAU G GCAUUC	6168	GGAAUGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGAGUC	24544
4317	AUCCCAU G ACUAUCGC	6169	GGAAUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUGGAU	24545
4326	ACUAUCGC G GGCUCAU	6170	AUGAGCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGAUAGU	24546
4327	CUAUCGGG G GGCUCAU	6171	CAUGAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGAUAG	24547
4328	UAUCGGG G GCUCAUGU	6172	ACAUGAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCAUA	24548
4350	GCUTUCGU G AUTUCUGG	6173	CCAGAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACGAAAGC	24549
4357	UGAUUUCU G GAAAUCA	6174	UGAUUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAAUCA	24550
4358	GAUUCUG G GAAAUCAA	6175	UUGAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAAUUC	24551
4359	AUUCUGG G AAUCAAAC	6176	GUUGAUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGAAU	24552
4369	AAUCAACA G AUUUGUGG	6177	CCACAUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGAUU	24553
4376	AGAUUGU G GAUUGAGA	6178	UCUCAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUAUCU	24554
4377	GAUUGUG G AUUGAGAG	6179	CUUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUAUC	24555
4381	UGUGGAU G AGAGAAGC	6180	GCUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCACA	24556
4383	UGGAUGA G AGAACGGC	6181	GCUCUUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCCA	24557
4385	GAUUGAGA G AACGGCGG	6182	CGCCGUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCAAUC	24558
4389	GAGAGAC G GCGGACAU	6183	AUGUCCG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCUCUC	24559
4392	AGACGGC G GACAUUUC	6184	GAAUUGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGUUCU	24560
4393	GAACGGG G ACAUUUC	6185	GGAAUUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGUUC	24561
4403	CAUUCU G GGAAGUG	6186	CACUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAAUG	24562
4404	AUUCUG G GAAAGUGA	6187	UCACUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGAAU	24563
4405	UUUCUGG G AAAGUGAU	6188	AUCACUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGGAA	24564
4411	GGGAAAGU G AUGCAGAA	6189	UUCUGCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUUCC	24565
4417	GUGAUGCA G AAUUAACA	6190	UGUAUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAUCAC	24566
4426	AAAUACA G GCUCGAGC	6191	GCUCGAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUAAUUU	24567
4431	ACAGGCUC G AGCGAAG	6192	CUUUCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCCUGU	24568
4435	GCUCGAGC G AAAGAGUU	6193	AACUUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUCGAGC	24569
4439	GAGCGAA G AGUUGAU	6194	CAUCAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUCUC	24570
4444	AAAGAGUU G AUGUGCGG	6195	CGGCACAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACUUUU	24571
4451	UGAUGUC G GCUUGAU	6196	CAUCAAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCACAUA	24572
4456	UGCGCUU G AUGAUGAU	6197	AUCAUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGCGCA	24573
4459	GGCUUGAU G AUGAUGA	6198	UCCAUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAAGCC	24574
4462	UUGAUGAU G AUGGAAC	6199	GUUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUCA	24575
4465	AUGAUGAU G GAAACUUC	6200	GAUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUCA	24576
4466	UGAUGAU G AAACUUC	6201	GGAAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCAUA	24577
4482	CAGCUCAU G AAUGAUUC	6202	GGAAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAGCUG	24578

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4486	UCAUAAU G AUCCAGGA	6203	UCCUGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCAUGA	24579
4492	AUGAUCA G GAGCACCU	6204	AGGUGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAUCAU	24580
4493	UGAUCCAG G AGCACCUU	6205	AAGGUGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGAUCA	24581
4502	AGCACCUU G GAAGAUAU	6206	AUAUCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUGCUU	24582
4503	GCACCUUG G AAGAUUUG	6207	CAUAUCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGGUGC	24583
4506	CCUUGGAA G AUUUGGAU	6208	AUCCAUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAAGG	24584
4511	GAAGAUU G GAUGCUCA	6209	UGAGCAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUAUCUUC	24585
4512	AAGAUAUG G AUGCUCAG	6210	CUGAGCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAUCUU	24586
4520	GAUGCUCA G AUUGUCU	6211	AGACCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGCAUC	24587
4524	UCUGAAU G AUGUGUCU	6212	AGACGAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUGAG	24588
4536	UGUCUGC G AUUAGUGC	6213	GCACUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGAGACA	24589
4556	CACCCCU G GGCAUCU	6214	AGAUGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGGGUG	24590
4557	ACCCOCUG G GCNAUCUU	6215	AAGAUGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGGGU	24591
4579	CAGUAGU G GAUUUGG	6216	CCAAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACUACUG	24592
4580	AGUAGUG G AUUUGGA	6217	UCCAAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAACUACU	24593
4586	UGGAUUU G GAUAACUC	6218	GAGUAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUCCA	24594
4587	GGAUUUU G AUAAUCU	6219	AGAGUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAUCC	24595
4608	UACAAA G AGAGAGG	6220	CTUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGUA	24596
4610	CACAAA G AGAGGGG	6221	CGUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUIUUG	24597
4612	CAAGAGA G GAGGGUG	6222	CACGCTC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUIUUG	24598
4613	AAAGAG G AGGCGUGU	6223	ACACGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCUU	24599
4615	AGAGAG G GCGUGUUG	6224	CAACAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCUCU	24600
4625	CGUGUUG G GGACACUC	6225	GAGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACAG	24601
4626	GUGUUG G GACACUCC	6226	GGAGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACAACAC	24602
4627	UGUUGG G ACACUCC	6227	GGGAGUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCACAACA	24603
4644	UCACAAA G GAGUACAA	6228	UUGUACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGUGA	24604
4645	CACAAAG G AGUACAA	6229	UUUGUACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGUG	24605
4656	UACAAAA G GGGACAC	6230	GUGUCCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGUA	24606
4657	ACAAAAAG G GGGACACG	6231	CGUGUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUGU	24607
4658	CAAAAAGG G GGACACGA	6232	UCGUGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUUUUG	24608
4659	AAAAAGG G GACACGAC	6233	GUCGUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUUUU	24609
4660	AAAGGGG G ACACACC	6234	GGUCUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCUIUU	24610
4665	GGGACAC G ACCACGG	6235	CCGUGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUCCCC	24611
4672	CGACACC G GCGUCUAC	6236	GUAGACG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGUGGUG	24612
4682	CGUCUACA G GAUCAUGA	6237	UCAUAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUAGACG	24613
4683	GUCUACAC G AUCAUGAC	6238	GUCAUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGUAGAC	24614
4689	AGGAUCAU G ACUCUGG	6239	CCACGAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUCCU	24615
4696	UGACUCU G GGCUGCUC	6240	GAGCAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACGAGUCA	24616
4697	GACUCUG G GCUGCUCG	6241	CGAGCAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACGAGUC	24617
4705	GGUCUCU G GCAGUAU	6242	AUAACUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCAGCC	24618

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4720	AUCAAGCA G GAGCGGG	6243	GCCGCGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGCUUGAU	24619
4721	UCAAGCAG G AGCGGGG	6244	CGCCGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCUUGA	24620
4725	GAGGAGC G GCGUGAU	6245	AUCAGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCCUGC	24621
4726	CAGGAGC G GCGUGAU	6246	CAUCAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCCUG	24622
4731	GCGGGCGU G AUGGUUGA	6247	UCAACCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCCGC	24623
4734	GCGGUGAU G GUUGAAGG	6248	CCUUAAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACGCC	24624
4738	UGAUGGUU G AAGGUGU	6249	AACACCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACCAUCA	24625
4741	UGGUUGAA G GUGUUUUC	6250	GAACAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAACCA	24626
4760	CACCCUUU G GCAUACAA	6251	UUUUAUGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGGUG	24627
4774	CAACAAA G GAGCCGCU	6252	AGCGGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGUUG	24628
4775	AACAAAAG G AGCCGCU	6253	AAGCGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUGUU	24629
4785	GCCGCUU G AUGAGCG	6254	CCGCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGCGC	24630
4788	GCUUGAU G AGCGGAG	6255	UUCGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAAAGC	24631
4792	UGAUGAGC G GAGAGGC	6256	GCCUCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCUCAUCA	24632
4793	GAUGAGCG G AGAGGGC	6257	GGCCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUCAUC	24633
4795	UGAGCGGA G AGGGCGC	6258	GGGCCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGCUCA	24634
4797	AGCGGAGA G GCGCGCCU	6259	AGCGGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCGCU	24635
4798	GCGGAGAG G GCGCGCUG	6260	CAGCGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUCGC	24636
4806	GCGCGCCU G GACCCAUA	6261	UAUGGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCGGCC	24637
4807	GCGGCCUG G ACCCAUAC	6262	GUUUGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCGGC	24638
4817	CCAUACU G GGCAGUG	6263	CACUGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUAGGG	24639
4818	CCAUACU G GCAGUGU	6264	ACACUGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUAGG	24640
4819	CAUACUG G GCAGUGUC	6265	GACACUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGUAG	24641
4830	AGUGUCAA G GAGGAUCG	6266	CGAUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACACU	24642
4831	GUGUCAAG G AGGAUCGA	6267	UCGAUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGACAC	24643
4833	GUCAAGGA G GAUCGACU	6268	AGUCGAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUGAC	24644
4834	UCAAGGAG G AUGGACUU	6269	AAGUCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUUGA	24645
4838	GGAGGUAUC G ACUUUGUU	6270	AACAAAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAUCCUCC	24646
4849	UUUGUUAC G GAGGACC	6271	GGGUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUAAACAA	24647
4850	UUUUUACG G AGGACCCU	6272	AGGUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUAAACAA	24648
4852	GUUACGGA G GACCCUGG	6273	CCAGGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGUUAC	24649
4853	UUACGGAG G ACCCUGGA	6274	UCCAGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCGUAA	24650
4859	AGGACCCU G GAAAUUGC	6275	GCAUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGGUCCU	24651
4860	GGACCCUG G AAUUGCA	6276	UGCAUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGGUCC	24652
4877	GCACAAGU G GACCGGC	6277	GCCGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUGUC	24653
4878	CACAAGU G AACGGGCA	6278	UGCCGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACUUG	24654
4882	AGUGGAAC G GGCAGGAU	6279	AUCCUGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCACU	24655
4883	GUGGAACG G GCAGGAUG	6280	CAUCCUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCAC	24656
4887	AACGGGCA G GAUGAGGU	6281	ACCUAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGCCGCU	24657
4888	ACGGGCAG G AUGAGGUG	6282	CACCUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCCGCU	24658

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4891	GGCAGGAU G AGGUGCAG	6283	CUGCACC U GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCCUGCC	24659
4893	CAGGAUGA G GUGCAGAU	6284	AUCUGCAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCAUCCUG	24660
4899	GAGGUGCA G AUGAUUGU	6285	ACAAUCAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGCACCUUC	24661
4902	GUGCAGAU G AUUGUGGU	6286	ACCACAAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUCUGCAC	24662
4908	AUGAUUGU G GUGGAACC	6287	GGUUCAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAAUCAU	24663
4911	AUGUGGU G GAACUGG	6288	CCAGGUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCACAAU	24664
4912	UUGUGGU G AACUUGG	6289	GCCAGGUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACCACAA	24665
4918	UGGAACCU G ACAGAAC	6290	GUUCUUGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGGUUCCA	24666
4923	CTUGGCAA G AACGUUA	6291	UUAACGUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUGCCAGG	24667
4932	AACGUUA G AACGUCCA	6292	UGGACGUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUAACGUU	24668
4941	AACGUCCA G ACGAAACC	6293	GGUUCGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGACGUU	24669
4944	GUCAGAC G AACACAGG	6294	CUUGGUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUCUGGAC	24670
4951	CGAAACCA G GGGUGUUC	6295	GAACACCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGGUUUCG	24671
4952	GAACACAG G GGUGUUA	6296	UGAACACC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CUGGUUUC	24672
4953	AAACACAG G GUGUUCNA	6297	UUGAACAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCUGGUUU	24673
4969	AAACACCU G AAGGAGNA	6298	UUCUCCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGGUGUUU	24674
4972	CACCUGAA G GAGNAUUC	6299	GAUUUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCAGGUG	24675
4973	ACCUAGAG G AARAUUC	6300	CGAUUUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UUCAGGU	24676
4975	CUGAAGGA G AAUUGGG	6301	CCCAUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UCCUUCAG	24677
4981	GAGAAUUC G GGGCCGUG	6302	CACGCCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GAUUUCUC	24678
4982	AGAAUUC G GGCUGUGA	6303	UCACGCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CGAUUUCU	24679
4983	GAUAUCG G GCCUGAC	6304	GUCACGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CCGAUUUC	24680
4989	GGGCCGU G ACUUGGA	6305	UCCAAAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACGGCCCC	24681
4995	GUGACUUU G GACUUCUCC	6306	GGGAAGUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAAGUCAC	24682
4996	UGACUUUG G ACUUCUCC	6307	GGGAAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAAAGUCA	24683
5008	UCCCCACU G GAACAUC	6308	UGAUGUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AGUGGGA	24684
5009	CCCCACUG G AACAUAC	6309	CUGAUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAGUGGG	24685
5017	GAACAUC G GCUCACCA	6310	UGGUGAGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG UGAUGUUC	24686
5031	CCAAUAGU G GACAAAA	6311	UUUUUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACUADUGG	24687
5032	CAUAGUG G ACAAAC	6312	GUUUUUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CACUADUG	24688
5041	ACAAAAC G GUGAUGUG	6313	CACAUCAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUUUUUGU	24689
5044	AAAACGGU G AUGUGAUU	6314	AAUCACAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACCGUUUU	24690
5049	GUGAUGU G AUUGGGCU	6315	AGCCCAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG ACAUACCC	24691
5053	AUGUGAUU G GGUUUU	6316	AUAAGCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUACAU	24692
5054	UGUGAUG G GCUUUU	6317	CAUAAGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AAUACAU	24693
5062	GCUUUU G GCAUUGA	6318	UUAUUGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUAAGCC	24694
5068	AUGGCAU G GAGUCAU	6319	UAUGACUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG AUUGCCAU	24695
5069	UGGCAUUG G AGUCAUAA	6320	UUAUGACU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG CAUUGCCA	24696
5086	UGCCCAAC G GCUCAUAC	6321	GUUGAGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GUUGGGCA	24697
5103	AUAAGCG G AUAGUGCA	6322	UGCACAUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG GCGUUU	24698

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5112	AUAGUGCA G GGUGAAAG	6323	CUUUCACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCACUUAU	24699
5113	UAGUGCAG G GUGAAAGG	6324	CUUUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGCACUA	24700
5116	UGCAGGGU G AAAGGAUG	6325	CAUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUGCA	24701
5120	GGUGAAA G GAUGGAUG	6326	CAUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCACCC	24702
5121	GGUGAAG G AUGGAUGA	6327	UCAUCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUCACC	24703
5124	GAAAGGAU G GAUGAGCC	6328	GGCUAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCUUUC	24704
5125	AAAGGAUG G AUGAGCCA	6329	UGGCUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCCUUU	24705
5128	GGAUGGAU G AGCCAUC	6330	GAUUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAUC	24706
5143	UCCAGCC G GAUUCGAA	6331	UUCGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUGGA	24707
5144	CCAGCCG G AUUCGAAC	6332	GUUCGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUGGG	24708
5149	CCGGAUUC G AACCCUGAG	6333	CUCAGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUCCGG	24709
5155	UCGAACCU G AUGUCUG	6334	CAGCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUUCGA	24710
5157	GAACUGA G AUGCUGAG	6335	CUCAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGGUUC	24711
5163	GAGAUGCU G AGGAAAA	6336	UUUUUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAUCUC	24712
5165	GAUGCUGA G GAAAAAAC	6337	GUUUUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGCAUC	24713
5166	AUGCUGAG G AAAAAACA	6338	UGUUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAGCAU	24714
5175	AAAAAACA G AUCACUGU	6339	ACAGUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUUU	24715
5187	ACUGUACU G GAUCUCCA	6340	UGGAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUACAGU	24716
5188	CUGUACUG G AUCUCCAU	6341	AUGGAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUACAG	24717
5200	UCCAUCC G GCGCCGGU	6342	ACCGGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGUAGGA	24718
5206	CCGGGCC G GUAATAACA	6343	UGUUUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGCCGG	24719
5216	UAAAACA G GAGGAUUC	6344	GAAUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUUUA	24720
5217	AAAACAAG G AGGAUUCU	6345	AGAAUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGUUUU	24721
5219	AACAAGGA G GAUUCUGC	6346	GCAGAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUGUU	24722
5220	ACAAGGAG G AUUCUGCC	6347	GGCAGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUUUU	24723
5232	UUGCCACA G AUCAUCA	6348	UUGAUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUGGCAG	24724
5242	UCAUCAAA G AGGCCAUA	6349	UAUGGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGAUGA	24725
5244	AUCAAGA G GCCAUA	6350	UUUAUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUGAU	24726
5255	CAUAAACA G AAGACUGA	6351	UCAGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUUG	24727
5258	AAACAGAA G ACUGAGAA	6352	UUUCUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGUUU	24728
5262	AGAAGACU G AGAACAGC	6353	GCUGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCUUCU	24729
5264	AAGACUGA G AACAGCCG	6354	CGGCUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGUCUU	24730
5288	ACCAACA G GGUUGUGG	6355	CCACAACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUUUGU	24731
5289	CCAACCAG G GUUGUGGC	6356	GCCACAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUGG	24732
5295	AGGGUUGU G GCUGCUGA	6357	UCAGCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACCCU	24733
5302	UGGCUUGU G AGAUGGCU	6358	AGCCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAGCCA	24734
5304	GCUGCUGA G AUGGCUGA	6359	UCAGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGCAGC	24735
5307	GCUGAGAU G GUGAAGC	6360	CCUUCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAGCAG	24736
5311	AGAUGGCU G AAGCACUG	6361	CAGUCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCCAUUC	24737
5319	GAAGCACU G AGAGGACU	6362	AGUCCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUGCUUC	24738

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5321	AGCACUGA G AGGACUGC	6363	GCAGUCCU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCAGUGCU	24739
5323	CACUGAGA G GACUGCCC	6364	GGGCAGUC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCUCAGUG	24740
5324	ACUGAGAG G ACUGCCCA	6365	UGGCAGU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CUCUCAGU	24741
5336	GCCCAUCC G GUACCCAGA	6366	UCUGUAC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GGAUGGGC	24742
5343	CGGUACCA G ACAUCCGC	6367	GCAGUUG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGUUACCG	24743
5360	AGUGCCCA G AGAACAU	6368	UAUGUUCU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGGGCACU	24744
5362	UGCCAGA G AACUAU	6369	AUAUGUU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCUGGGCA	24745
5371	AACUAU G GAUUGAG	6370	CUCAUUC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUUAUGU	24746
5372	ACUAUUG G AAUUGAGA	6371	UCUAUUU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CAUUAUGU	24747
5377	AUGAAU G AGAUUGU	6372	AACAAUCU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUUUCUCCAU	24748
5379	GGAAUGA G AUGUUGA	6373	UCAACAU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCAUUCUCC	24749
5386	AGAUUGU G AUGUCAU	6374	CAUGACAU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AACAAUCU	24750
5417	CACCCACA G GCUGAUGU	6375	ACAUACG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGUGGGUG	24751
5421	CACAGGU G AUGUCUCC	6376	GGAGACAU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AGCCUGUG	24752
5435	UCCUCACA G GUGGCCGA	6377	UCGGCAC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGUGAGGA	24753
5436	CCUCACAG G GUGCCGAA	6378	UUCGGCAC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CUGUGAGG	24754
5442	AGGUGCC G AACUCAA	6379	UUGUAGU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GGCACCCU	24755
5460	CUGUUGU G AUGGAUGA	6380	UAUCAUC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG ACGAACAG	24756
5463	UUCGUAG G GAUGAGGC	6381	GCTUCAUC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUCACGAA	24757
5464	UCUGAUG G AUGAGGU	6382	AGCCUCAU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CAUCACGA	24758
5467	UGAUGAU G AGGCUCAU	6383	AUGAGCU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUCAUCA	24759
5469	AUGAUGA G GCUCAUUU	6384	AAUAGC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCAUCCAU	24760
5482	AUUUACC G ACCRAGCU	6385	AGCUGGU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GGUUAAU	24761
5504	UGCAGCA G AGGUACA	6386	UGUAACU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UUGCUGCA	24762
5506	CAGCAAGA G GUUACAUU	6387	AAUGUAC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCUUGCUG	24763
5523	UCCACAA G GUCRAGCU	6388	AGUCGAC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UUGUGGA	24764
5527	CARAGGUC G AGCUAGGG	6389	CCCUAGCU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GACCUUUG	24765
5533	UCGAGCUA G GGGAGCG	6390	CGCCUCC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UAGCUCGA	24766
5534	CGAGCUAG G GAGGCGG	6391	CCGCCUC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CUAGCUCG	24767
5535	GAGCUAGG G GAGGCGC	6392	GCCGCCUC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CCUAGCUC	24768
5536	AGCUAGG G AGGCGCG	6393	CGCGCCU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG CCUAGCU	24769
5538	CUAGGGGA G GCGGCGC	6394	GCCGCCG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UCCCUAG	24770
5541	GGGAGGC G GCGGCAU	6395	AUUGCCG GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GCUUCCC	24771
5544	GAGCGGC G GCRAUUAU	6396	AUAUUGC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GCGGCCUC	24772
5556	AUAUUAU G ACAGCCAC	6397	GUGGUGU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG AUGAAUAU	24773
5572	CCCACCA G GCACUUA	6398	UGAGGUC GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGGUGGG	24774
5581	GCACUUA G AUCAUUC	6399	GAUUGAU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGAAUUG	24775
5593	CAUCCCA G AGUCCAU	6400	AUUGGACU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGGGAAUG	24776
5614	CAUUUCC G ACUACAG	6401	CUUUAUGU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG GGAUUAUG	24777
5622	GACUUA G ACUGAGAU	6402	AUCUACU GGA GCCGUUAGGC UCCUUUCAAGGA GCCGUUAGGC UCCGGG UGUUAGUC	24778

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5626	UACAGACU G AGAUCGCG	6403	CGGGAUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCUGUA	24779
5628	CACAGUGA G AUCCCGGA	6404	UCCGGGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGUCUG	24780
5634	GAGAUCCC G GAUCGAGC	6405	GCUCGACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGAUCUC	24781
5635	AGAUCGCG G AUCCGAGU	6406	AGUCGACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGGGAUCU	24782
5639	CCCAGAU G AGCUUGGA	6407	UCCAAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAUCCGGG	24783
5645	UCGAGCUU G GAACUCUG	6408	CAGAGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUCUGA	24784
5646	CGAGCUUG G AACUCUGG	6409	CCAGAGUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGCUCG	24785
5653	GGAAUCU G GAUACGAA	6410	UUCGUAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAGUCC	24786
5654	GAACUCU G AUACGAAU	6411	AUUCGUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAGUUC	24787
5659	CUGGAUAC G AAUGGAUC	6412	GAUCCAUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCAG	24788
5663	AUACGAU G GAUCACAG	6413	UCUGAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCGUU	24789
5664	UACGAUG G AUACACAGA	6414	UCUGUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCGUA	24790
5671	GAUACACA G AAUACACC	6415	GGUGUAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUAUCC	24791
5680	AAUACACC G GGAAGACG	6416	CGUCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUAU	24792
5681	AUACACC G GAAGACGG	6417	CCGUCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUGUAU	24793
5682	UACACGG G AAGACGGU	6418	ACCGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGUGUA	24794
5685	ACCGGGA G ACGGUUG	6419	CAACCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGCGU	24795
5688	GGGAAGAC G GUUUGGU	6420	AACCAAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUCC	24796
5693	GACGGUU G GUUUGUC	6421	GCACAAAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAACCGUC	24797
5712	AGUUGAA G AUGGGGA	6422	UUCUUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UAACACU	24798
5715	GUCAAGU G GGAUGA	6423	UUAUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUGAC	24799
5716	UCAAGUG G GGAUGAG	6424	CUCAUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUUGA	24800
5717	CAAGAUG G GAAUGAGA	6425	UCUCAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCUUG	24801
5718	AAGAUGG G AAUGAGU	6426	AUCUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCU	24802
5722	UGGGAAU G AGAUUGCC	6427	GGCAUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCCCA	24803
5724	GGGAUGA G AUUGCCU	6428	AGGCAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUUC	24804
5749	AACGUCU G GAAAGAA	6429	UUUCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGCACGU	24805
5750	ACGUCUG G AAAGAAAG	6430	CUUCUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCACGU	24806
5754	GUUGGAA G AAAGUAGU	6431	ACUACUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCAGC	24807
5769	GUCCAAU G AACAGAA	6432	UUUCUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUGGAC	24808
5774	AUUGAACA G AAAGUCU	6433	ACGACUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUCAU	24809
5785	AGUGUAC G AGACGAG	6434	CUCGUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUACGACU	24810
5787	UCGUACG G ACGGAGUA	6435	UACUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCGUACGA	24811
5790	UACGAGAC G GAGUACCC	6436	GGGUACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUUGUA	24812
5791	ACGAGACG G AGUACCCA	6437	UGGUUACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGUCUCU	24813
5808	AAAGUAA G AACGAUGA	6438	UCAUCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUACAUU	24814
5812	GUAGAAC G AUGAUUGG	6439	GUCCAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCUAC	24815
5815	AGACGAU G AUUGGAC	6440	GUCCAAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUUCU	24816
5819	CGAUGAU G GGAUUG	6441	CAAAUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCAUCG	24817
5820	GAUGAUU G GACUUGU	6442	ACAAUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUCAUC	24818

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5821	AUGAUUGG G ACUUGU	6443	AACAAGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCAUUAU	24819
5839	UCACAACA G ACAUAUCU	6444	AGAUUGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGUUGUA	24820
5848	ACAUAUCU G AAUUGGG	6445	CCCAUUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGAUUGU	24821
5853	UCUGAAU G GGGCUAA	6446	UAGCCCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AUUUCAGA	24822
5854	CUGAAUG G GGCUAAC	6447	GUUAGCCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAUUCAG	24823
5855	UGAAUUG G GCUAACU	6448	AGUAGCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCAUUA	24824
5856	GAUAUGG G GUAAUCU	6449	AAUUDAG GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCAUUC	24825
5868	AACUCAA G GCGAGCAG	6450	CUGCUGC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGAAGUU	24826
5871	UCCAAGGC G AGCAGGGU	6451	ACCUCGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GCUUGAA	24827
5876	GGCAGCA G GUUGAUG	6452	CAUACCC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GCUUGCC	24828
5877	GCGAGCAG G GUGAUGA	6453	UCAAUCAC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CUGCUGC	24829
5880	AGCAGGGU G AUGACAG	6454	CUGUCAU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACCUCGU	24830
5884	GGGUAU G ACAGCCGG	6455	CCGCGUGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AUACACC	24831
5891	UGACAGCC G GAGAGUG	6456	CACUCUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GCGUGUA	24832
5892	GACAGCCG G AAGAGUGU	6457	ACACUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG OGGCUGU	24833
5895	AGCCGGAA G AGUGUGAA	6458	UUCACACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCCCGCU	24834
5901	AAGAGUGU G AAACCAAC	6459	GUUGGUU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACACUCU	24835
5920	UUAUACA G AAGGAGAA	6460	GUUUCUU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGUUAUGA	24836
5923	UAACAGAA G GAGAGGG	6461	CCUUCUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UUCUGUA	24837
5924	AACAGAG G AGAAGGGA	6462	UCCUUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CUUCUGU	24838
5926	CAGAAGG G AAGGGAGA	6463	UUCUCCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCCUUCU	24839
5929	AAGGAGN G GGAGAGUG	6464	CACUCUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UUCUCCU	24840
5930	AGGAGAAG G GAGAGUGA	6465	UCACUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CUUCUCU	24841
5931	GGAGAAG G AGAGUGAU	6466	AUCACUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCUUCUC	24842
5933	AGAAGGA G AGUGAUCC	6467	GAUCACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCCUUCU	24843
5937	GGAGAGU G AUCCUGGG	6468	CCAGAGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACUCUCC	24844
5943	GUGAUCCU G GGAGAACC	6469	GGUUCUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AGGAUAC	24845
5944	UGAUCCUG G GAGAACA	6470	UGGUUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAGGAUC	24846
5945	GAUCCUGG G AGAACCAU	6471	AUGGUUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CCAGGAUC	24847
5947	UCCUGGA G AACCAUCU	6472	AGAUGGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCCCAAG	24848
5961	UCUGCAGU G ACAGCAGC	6473	GCUGCUGU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACUGCAGA	24849
5982	GCCGCCA G AGACGUGG	6474	CCACGUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UGGGCGC	24850
5984	CGCCACA G ACGUGGAC	6475	GUCCACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UCUGGCG	24851
5989	AGAGACU G GACGUAUC	6476	GAUACGUC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACGUCUC	24852
5990	GAGACGUG G ACGUAUCG	6477	CGUAUCU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG CAGUCUC	24853
5998	GACGUAC G GUAGAAU	6478	AUUCUAC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG GAUACGUC	24854
6002	UAUCGUA G AAUCCGU	6479	ACGGAUU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG UAACGUA	24855
6019	CGCAAGU G GUGAUGAG	6480	CUCAUCAC GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AACUUGC	24856
6022	AAGUUGU G AUGAGUAC	6481	GUACUACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG ACCAACU	24857
6025	UUGGUGU G AGUACUGU	6482	ACAGUACU GGA GCCGUUAGGC UCCCUCAAGGA GCCGUUAGGC UCCGGG AUCACAA	24858

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6037	ACUGUUAU G GGGGGCAC	6483	GUGCCCC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AUAACAGU	24859
6038	CUGUUAU G GGGGGCAC	6484	UGUGCCCC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CAUAACAG	24860
6039	UGUUAUG G GGGCACAC	6485	GUGUGCCC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CCAUAACA	24861
6040	GUUAUGG G GGCACACG	6486	CGUGUGCC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CCCAUAAC	24862
6041	UUAUGGG G GCACACGA	6487	UCGUGUGC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CCCCAUA	24863
6048	GGGCAC G AAUAAGA	6488	UCUUAUU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	GUGUGCCC	24864
6052	ACACGAAU G AAGACGAC	6489	GUCGUCUU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AUUGUGU	24865
6055	CGAUGAA G ACACUCG	6490	CGAGUCGU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UUCAUUCG	24866
6058	AUGAAGAC G ACUCGAAC	6491	GUUCGAGU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	GUCUUCAU	24867
6063	GACGACUC G AACUUCGC	6492	GCGAAGUU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	GAGUCGUC	24868
6077	CGCCCAUU G ACUGAGG	6493	CCUCAGUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AAUGGGCG	24869
6078	GCCCAUG G ACUGAGG	6494	GCUCAGU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CAUUGGGC	24870
6082	AUUGGACU G AGGCACGA	6495	UCUGGCU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AGUCCAUA	24871
6084	UGGACUGA G GCACGAUU	6496	AUUCGUGC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UCAGUCCA	24872
6089	UGAGGCAC G AAUCAUGC	6497	GCAUGAUU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	GUGCCUCA	24873
6099	AUCAUGCU G GACAACAU	6498	AUGUUGUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AGCAUGAU	24874
6100	UCAUGCU G ACAACAUC	6499	GAUGUUGU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CAGCAUGA	24875
6121	UGCCAAAC G GACUGAUC	6500	GAUCAGUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	GUUUGGCA	24876
6122	GCCAAACG G ACUGAUCG	6501	CGAUCAGU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CGUUGGGC	24877
6126	AACGACU G AUCGCUCA	6502	UGAGCGAU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AGUCCGUU	24878
6148	ACCAACCA G AGCGUGAG	6503	CUCACGCU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UGGUUGGU	24879
6154	CAGAGCGU G AGAAGGUA	6504	UACCUUCU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	ACGCUUG	24880
6156	GAGCGUGA G AAGGUUAU	6505	UAUACCUU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UCACGCUC	24881
6159	CGUGAGAA G GUUAUAC	6506	GUUAUAC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UUCUCACG	24882
6171	UAUACCAU G GAUGGGGA	6507	UCCCAUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AUGGUUAU	24883
6172	AUACCAUG G AUGGGGA	6508	UUCCCAU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CAUGGUUAU	24884
6175	CCAUGGAU G GGAUAUAC	6509	GUUUCUCC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AUCCAUGG	24885
6176	CAUGGAUG G GGAUAUAC	6510	GGUAUUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CAUCCAUG	24886
6177	AUGGAUG G GAUAUAC	6511	CGUAUUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CAUCCAUG	24887
6178	UGGAUGG G AAUAUAC	6512	CCGUUAU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CCCAUCCA	24888
6185	GGAUAUAC G GCUACAG	6513	CUCUGAGC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	GGUAUUC	24889
6191	CCGCUCA G AGGAGAAG	6514	CUUCUCCU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UGAGCCCG	24890
6193	GGTUCAGA G GAGAAGAG	6515	CUCUUCUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UCUGAGCC	24891
6194	GUUCAGAG G AGAAGAGA	6516	UCUUCUCU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CUCUGAGC	24892
6196	UCAGAGGA G AAGAGAGA	6517	UCUCUCUU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UCCUCUGA	24893
6199	GAGAGAA G AGAGAAAA	6518	UUUUUCUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UUCUCCUC	24894
6201	GGAGAAGA G AGAAAAA	6519	UUUUUUUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UUCUCCUC	24895
6203	AGAGAAGA G AAAAAACU	6520	AGUUUUUU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	UUCUUCUC	24896
6216	AACUUUCU G GAACUUGU	6521	CAACAGUC GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	AGAAAGUU	24897
6217	ACUUUCUG G AACUGUG	6522	CAACAGUU GGA GCCGUUAGG	UCCUUCAAGGA	GCCGUUAGG	UCCGGG	CAGAAAGU	24898

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6225	GAACUGUU G AGGACUGC	6523	GCAGUCCU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AACAGUUC	24899
6227	ACUGUUGA G GACUGCAG	6524	CUGCAGUC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UCAACAGU	24900
6228	CUGUUGAG G ACUGCAGA	6525	UUGCAGU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UCAACAGU	24901
6235	GACUGGCA G AUCUGCCA	6526	UUGCAGU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UGCAGUCC	24902
6248	GCAGUUU G GCUUGCUU	6527	AAGCAGC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AAACUGGC	24903
6252	GUUGGCU G GCUUACAA	6528	UUGUAGC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AGCCAAC	24904
6261	GCUUACAA G GUUGCAGC	6529	GUUGAAC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UUGUAAAC	24905
6270	GUUGCAGC G GCUUGAGU	6530	ACUCCAGC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG GCUGCAAC	24906
6274	CAGCGGCU G GAGUGUCA	6531	UGACACUC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AGCGGUG	24907
6275	AGCGGCGU G AGUGUCAU	6532	AUGACACU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG CAGCCGCU	24908
6289	CAUACCAC G ACCGGAGG	6533	CCUCCGGU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG GUGGUUUG	24909
6293	CCACGACC G GAGUGGUU	6534	ACCACUC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG GUGGUUUG	24910
6294	CACGACG G AGGUGGU	6535	CACACUC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG GUGGUUUG	24911
6296	CGACCGA G GUGGUGCU	6536	AGCACAC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UCCGGUG	24912
6299	CGGAGGU G GUGGUGCU	6537	CAAGCAC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG ACCUCGG	24913
6307	GGUGCUU G AUGGUCCU	6538	AGGACCAU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AAAGCAC	24914
6310	GCUUGAU G GUCCUAGG	6539	CUUAGGAC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AUCAAGC	24915
6317	UGGUCCUA G GACAAACA	6540	UGUUGUC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UAGGACCA	24916
6318	GUCCUAG G ACAACAC	6541	GUGUUGU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG CUAGGAC	24917
6334	CAUUUUA G AAGACAAC	6542	GUUGUCU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UAAAUUG	24918
6337	UUUAGAA G ACAACAAC	6543	GUUGUUG GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UUCUAAA	24919
6346	ACACAAC G AGUGGAA	6544	UUCCAUU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG GUUGUUG	24920
6351	AAGAAGU G AAGUCAU	6545	AUGACUUC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG ACUUCGU	24921
6352	AGAAGUG G AAGUCAUC	6546	GAUGACU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG CACUUCU	24922
6363	GUCAUCAC G AAGCUTUG	6547	CCAAGCU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG GUGAUGAC	24923
6370	CGAAGCU G GUGAAAGG	6548	CCUUCAC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AAGCUUG	24924
6373	AGCUGGU G AAGGAAG	6549	CUUCUUU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG ACCAAGCU	24925
6377	UGUGAAA G AAGAUUC	6550	GAUUCUUC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UUCACCA	24926
6378	GGUGAAG G AAGAUUCU	6551	AGAUCUU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG CUUUCACC	24927
6381	GAAAGGAA G AUUCUGAG	6552	CUAGAAU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UUCUUCU	24928
6387	AAGAUUCU G AGGCGCG	6553	CGCGGCU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AGAUUCU	24929
6389	GAUUCUGA G GCGGCGU	6554	AGCGCGG GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UCAGAAUC	24930
6398	GCGGCGCU G GAUUGACG	6555	CGUCAAU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AGCGCGC	24931
6399	CCGCGCUG G AUUGACG	6556	GCUCAAU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG CAGCGCG	24932
6403	GUUGAUU G ACGCCAGG	6557	CUUGGCU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG AUUCACG	24933
6410	UGACGCCA G GUGUACU	6558	AGUACAC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UGGCGUCA	24934
6411	GACGCCAG G GUGUACUC	6559	AGUACAC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG CUGGCGUC	24935
6420	GUGUACUC G GAUACCA	6560	UGUGAUU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG GAGUACAC	24936
6421	UGUACUC G AUCACCAG	6561	UGUGAUU GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG CGAGUACA	24937
6429	GAUACCA G GCACUAAA	6562	UUUAGUC GGA GCGGUUAGGC UCCUUCUACAGGA GCGGUUAGGC UCCGGG UGGUUAUC	24938

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6438	GCACUAAA G GCGUUCAA	6563	UTGAACGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUUAGUGC	24939
6447	GCGUUCAA G GACUUCGC	6564	GCGAAGUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUUAGACG	24940
6448	GGUUCUAG G ACUUCGCC	6565	GGCGAAGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUUAGACG	24941
6450	UUGGCCUC G GGAAGACG	6566	GCUUUUCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	GAGGCGAA	24942
6459	UCGCCUCG G GAAACGUA	6567	ACGUUUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CGAGGCCA	24943
6461	CGCCUCGG G AAAACGUU	6568	AACGUUUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CGAGGCCG	24944
6474	CGUUCUCA G AUAGGCCU	6569	AGCCCUAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UGAGAACG	24945
6478	CUCAGAAU G GGCUCAUU	6570	AAUGAGCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UAUCUGAG	24946
6479	UCAGAUAG G GCUCAUUG	6571	CAUAGAGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CUAUCUGA	24947
6487	GGUCUAUU G AGGUUCUG	6572	CAGAACCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AAUGAGCC	24948
6489	CUCAUUGA G GUUCUGGG	6573	CCCAGAAC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCAAUGAG	24949
6495	GAGGUUCU G GGAAGAU	6574	AUCUUUCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AGAACCCU	24950
6496	AGGUUCUG G GAAAGAU	6575	CAUCUUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAGAACCU	24951
6497	GUUCUGG G AAAGUUC	6576	GCAUCUUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CCAGAAC	24952
6501	CUGGAAA G AUGCUGA	6577	UCAGGCAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUUCCCG	24953
6508	AGAUGCCU G AGCACUUC	6578	GAAUGUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AGGCAUCU	24954
6519	CACUUCAU G GGAAGAC	6579	GUUUUCCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AUGAAGUG	24955
6520	ACUUAUG G GGAAGACA	6580	UGUUUUCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAUGAAGU	24956
6521	CUUAUGG G GAAGACAU	6581	AUGUUUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CCAUGAAG	24957
6522	UUAUGGG G AAGACAU	6582	CAUGUCUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CCAUGAA	24958
6525	AUGGGGA G ACAUGGA	6583	UCCCAUGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCCCCCAU	24959
6530	GAAGACAU G GGAAGCAC	6584	GUGUUUCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AUGUCUUC	24960
6531	AAGACAU G GAAGCACU	6585	AGUGUUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAUGUCUU	24961
6532	AGACAU G AAGCACU	6586	AAGUGCUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CCAUGUCU	24962
6541	AAGCACU G ACACAU	6587	CAUGGUGU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AAGUGCUU	24963
6558	UACGUGU G GCCACUGC	6588	GCAGUGGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	ACAACGUA	24964
6568	CCACUGCA G AGAAGGA	6589	UCCUUUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UGCAGUGG	24965
6570	ACUGCAGA G AAGGAGG	6590	CUUCCUUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUCGAGU	24966
6574	CAGAGAA G GAGGAAG	6591	UCUUUCCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UUUCUCUG	24967
6575	AGAGAAAG G AGGAAGAG	6592	CUCUUUCC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CUUUCUCU	24968
6577	AGAAAGG G GAAGAGCU	6593	AGCUUUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCCUUUCU	24969
6578	GAAGAGG G AAGAGCUC	6594	GAGUCUUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCCUUUUC	24970
6581	AGGAGGAA G AGCUCACA	6595	UGUGAGCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCCUUUCU	24971
6590	AGCUCACA G AAUGGCC	6596	GGGCAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UGUGAGCU	24972
6594	CACAGAAU G GCCCUGGA	6597	UCCAGGGC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AUUCUGUG	24973
6600	AUGGCCCU G GAGGAACU	6598	AGUUCUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	AGGGCCAU	24974
6601	UGGCCUCG G AGGAACUG	6599	CAGUUCU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	CAGGGCCA	24975
6603	GCCUCUGA G GAACUGCC	6600	GGCAGUUC GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCCAGGCC	24976
6604	CCUCUGGAG G AACUGCCA	6601	UGGCAGUU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UCCAGGG	24977
6613	AACUGCCA G AUGCUCUU	6602	AAGAGCAU GGA GCGGUUAGGC	UCCCUUCAAGGA	GCGUUUAGGC	UCCGGG	UGGCAGUU	24978

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6624	GCUCUUA G ACAAUUGC	6603	GCAAUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAAAGAGC	24979
6636	AUUGCCUU G AUUGCCUU	6604	AAGCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGGCAAU	24980
6648	GCCUUUU G AUGUGAU	6605	AUCACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUAGGC	24981
6654	UUGAGUUG G AUGACCAU	6606	AUGUCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACACUCAA	24982
6657	AGUGUGU G ACCAUGGG	6607	CCCAUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCACACU	24983
6663	AUGACCAU G GGAGUAU	6608	AAUACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGUCAU	24984
6664	UGACCAUG G GAGUAUUC	6609	GAUACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGGUCA	24985
6665	GACCAUGG G AGUAUUCU	6610	AGAAUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGGUC	24986
6689	CAUGCAGC G GAAGGCA	6611	UGCCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGCAUG	24987
6690	AUGCAGCG G AAGGCAU	6612	AUGCCCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCUGCAU	24988
6693	CAGCGAA G GGCAUUGG	6613	CCAAUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGCGUG	24989
6694	AGCGAAG G GCAUUGGA	6614	UCCAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCGCU	24990
6700	AGGCAU G GAAAGAU	6615	UAUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGCCCU	24991
6701	GGGCAUUG G AAAGAUAG	6616	CUAUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAUGCCC	24992
6705	AUUGAAA G AUAGGUUU	6617	AAACUUA GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUCCAUA	24993
6709	GAAGAU G GUUUGGA	6618	UCCCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUCUUUC	24994
6714	AUAGGUU G GGAGGCG	6619	GGCCUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACCUAU	24995
6715	UAGGUUG G GAGGCGU	6620	AGCGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACCUA	24996
6716	AGGUUGG G AGGCGUG	6621	CAGCCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAACCU	24997
6718	GUUGGGA G GCGUGUC	6622	GACAGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAAC	24998
6729	GUUGGU G GGAGGCG	6623	GCGAUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGACAGC	24999
6730	CUUGUCU G GAGUCGCG	6624	CGGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACAGC	25000
6731	UGUCUUG G AGUCGCGA	6625	UCGCGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAGACA	25001
6738	GGAGUCG G ACCUUUUU	6626	AAAAAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGAUCC	25002
6752	UUUCUGU G GAUGGCG	6627	CAGCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAGAA	25003
6753	UUCUGUG G AUGGCUA	6628	UCAGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAGAA	25004
6756	UGUUGAU G GCUGAAGU	6629	ACUUCAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAACA	25005
6760	GGAUGGU G AAGUCCA	6630	UGGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAUCC	25006
6769	AAGUCCA G GAACGAAG	6631	CUUCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGAACUU	25007
6770	AGUCCAG G AACGAAGA	6632	UCUUGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGAACU	25008
6774	CCAGGAAC G AAGAUCGC	6633	GCGAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUCCUUG	25009
6777	GGAACGNA G AUCGCCG	6634	CCGCGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGUUCC	25010
6784	AGAUCCG G GAUUGUUG	6635	CAACAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGGAUCU	25011
6785	GAUGCCG G AAUGUUGC	6636	GCAACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGAUC	25012
6810	CUUCUCU G AUGAUUGU	6637	ACAAUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAGAAG	25013
6813	CUUCUGU G AUUGGCU	6638	AGCAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAAGAG	25014
6829	UAAUCCU G AGCCAGAG	6639	CUUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGAUUA	25015
6835	CAGGCCA G AGAAGCAA	6640	UUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGCUCAG	25016
6837	GAGCAGA G AAGCAACG	6641	UUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGGCU	25017
6852	CGUUGCA G ACAGACAA	6642	UUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGNAACG	25018

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6856	GCAGACA G ACAACCAG	6643	CUGGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUGCG	25019
6879	GUGUUCU G AUUUGUGU	6644	ACACAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGAACAC	25020
6891	UGUGUUAU G ACCCUUGU	6645	ACAAGGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGACACA	25021
6900	ACCCUUGU G AGCGCAGU	6646	ACUGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAAGGU	25022
6909	AGCGCAGU G GCAGCCAA	6647	UUGGCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUGCGU	25023
6919	CAGCCAC G AGAUGGU	6648	ACCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUUGCGU	25024
6921	GCCACGA G AUGGUUG	6649	CAACCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUGGC	25025
6924	AACGAGU G GGUUGGU	6650	AGCCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUCGU	25026
6925	ACGAGU G GUUGGCUA	6651	UAGCCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUGU	25027
6929	GAUGGUU G GCUAGUA	6652	UAUCUAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCAUC	25028
6934	GUUGGCUA G AUAAGACC	6653	GGUCUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAGCCAAC	25029
6939	CUAGAUAA G ACCAAGAG	6654	CUCUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUCUAG	25030
6945	AAGACCA G AGUGACAU	6655	AUGUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUCUU	25031
6949	CCAGAGU G ACAUAGC	6656	GUUAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUUG	25032
6967	GUUGGUU G GGCAAGA	6657	UCUUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACAAC	25033
6968	UUGGUUG G GCAAGAA	6658	UUCUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACAA	25034
6974	UGGCAAA G AAUUGAGG	6659	CCUCAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCCCA	25035
6979	AAAGAAU G AGGUCAAG	6660	CUUGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUCUU	25036
6981	AGAAUUGA G GUCARAGG	6661	UCCUUGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUUCU	25037
6987	GAGGUCAA G GAGAAUUA	6662	AAAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGACCUC	25038
6988	AGGUCAAG G AGAAUUC	6663	GAUAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGACCU	25039
6990	GUCARAGG G AAUUCAG	6664	CUGAAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUUGAC	25040
7002	UUCAGCAU G GGAGAGUU	6665	AACUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGCUGAA	25041
7003	UCAGCAUG G GAGAGUUU	6666	AAACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGUGA	25042
7004	CAGCAUG G AGAGUUC	6667	GAACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUGCUG	25043
7006	GCAUGGGA G AGUUCUU	6668	AAGAAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAUGC	25044
7017	UUUCUUU G GACUUGAG	6669	CUCAAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAGAA	25045
7018	UUCUUUUG G ACUUGAGG	6670	CTUCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGAA	25046
7023	UUGGACU G AGGCGGC	6671	GCCGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUCCAA	25047
7025	GGACUUGA G GCCGGCAA	6672	UUGCGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAGUCC	25048
7029	UUGAGGCC G GCAACAGC	6673	GCUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCCUCA	25049
7040	AACAGCCU G GUCACUGU	6674	ACAGUAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGGCUUU	25050
7056	UACGCUU G ACAACAGC	6675	GCUGUUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGCUGA	25051
7065	ACAACAGC G GUCCUAC	6676	GUGAGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGUUGU	25052
7092	AAGCAUU G AUCACGUC	6677	GACGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUUGUU	25053
7102	UCAGGUCA G AUUACAUC	6678	GAUGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACGUGA	25054
7122	ACCUCAU G ACUCAAU	6679	AUUGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAUGAGU	25055
7140	AACGUUCA G GCAAGUGC	6680	GCACUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGAACGUU	25056
7166	ACUGCGC G AGGUUCC	6681	GGAAGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGCGAGU	25057
7168	UCGCGCGA G GCUUCCCC	6682	GGGGAAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGCGCGA	25058

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7183	CCUUCGUC G AUGUUGGA	6683	UCCAAACAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACGAAGG	25059
7189	UCGAUGUU G GAGUGCG	6684	CGACACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACAUCCGA	25060
7190	CGAUGUUG G AGUUGCGG	6685	CCGACACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACAUCCG	25061
7197	GGAGUUC G GCUCUCU	6686	AGGAGAGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GACACUCC	25062
7216	UAGCAGCC G GAUCUGG	6687	CCAGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUGCUA	25063
7217	AGCAGCG G AUGCUGG	6688	CCCAGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUGCU	25064
7223	CGGAUGCU G GGGACAAG	6689	CUUGUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAUCCG	25065
7224	GGAUGCUG G GGACAAGU	6690	ACUUGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAGCAUCC	25066
7225	GAUGCUGG G GACAAGUC	6691	GACUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAGCAUC	25067
7226	AUGCUGGG G ACAAGUCA	6692	UGACUUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCAGCAU	25068
7248	ACCGUUC G GUACACAG	6693	GCUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUAACGGU	25069
7257	GUACACAG G GCAACACU	6694	AGUGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUGUUC	25070
7290	GCCUACAU G GUUCCCGG	6695	CCGGGAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUAGGC	25071
7297	UGGUUCCC G GUUGGCAA	6696	UUGCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGGAACCA	25072
7301	UCCCGGUU G GCAAGCUG	6697	CAGCUCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCGGA	25073
7309	GGCAAGCU G AGGCAUG	6698	CAUUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCUUGCC	25074
7311	CAAGCUGA G GCAUGCG	6699	CGCAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAGCUUG	25075
7331	AGCCAGC G GCGACAG	6700	CUGUCCG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUGGCU	25076
7334	CCAGCGGC G GACAGCGG	6701	CCGCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCCGCUUG	25077
7335	CAGCGCG G ACAGCGC	6702	GCCGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGCGCUG	25078
7341	CGACAGC G GCCGGAU	6703	AUCCCGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGUCCG	25079
7345	CAGCGCC G GAUCAUG	6704	CAUGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGCGCUG	25080
7346	AGCGCGG G AAUCAUGA	6705	UCAUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCGCU	25081
7353	GGAAUCAU G AAGAACGC	6706	GCGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGAUUCC	25082
7356	AUCAUGAA G AACGCUGU	6707	ACAGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAUGAU	25083
7368	GCUGUAGU G GAUGGCAU	6708	AUGCCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACAGC	25084
7369	CUGUAGU G AUGGCAUC	6709	GAUGCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACUACAG	25085
7372	UAGUGAU G GCAUCGUG	6710	CACGAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCACUA	25086
7380	GGCAUCGU G GCCACGGA	6711	UCCGUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGUCC	25087
7386	GUGCCAC G GACGUCCC	6712	GGGACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGCCAC	25088
7387	UGGCCACG G ACGUCCCA	6713	UGGGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGGCCA	25089
7396	ACGUCCCA G AAUAGAG	6714	CUCUAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGACGU	25090
7402	CAGAAUA G AGCGCAC	6715	GGUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAAUUCUG	25091
7425	AUCAUGCA G AAGAAAGU	6716	ACUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGCAUGAU	25092
7428	AUGCAGAA G AAAGUUGG	6717	CCAACUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUGCAU	25093
7435	AGAAAGU G GACAGAU	6718	GAUCUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUUUCU	25094
7436	GAAGUUG G ACAGAUCA	6719	UGAUCUG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAACUUUC	25095
7440	GUUGGACA G AUCADGCU	6720	AGCAUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGUCCAAC	25096
7449	AUCAUGCU G AUCUUGGU	6721	ACCAAGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAUGAU	25097
7455	CUGAUCU G GUGUCUCU	6722	AGAGACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGAUACG	25098

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7479	GUAGUAGU G AACCGGUC	6723	GACGGGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACUACUAC	25099
7491	CCGUCUGU G AAGACAGU	6724	ACUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACAGACGG	25100
7494	UCUGUGAA G ACAGUACG	6725	CGUACUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCACACAGA	25101
7502	GACAGUAC G AAGAGCCG	6726	CGGCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUACUGUC	25102
7504	CAGUACGA G AAGCGGA	6727	UCCGGCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGUACUG	25103
7510	GAGAAGCC G GAUUUUG	6728	CAAAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUCUC	25104
7511	AGAGAGCC G AUUUUGA	6729	UCAAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUUCU	25105
7518	GGAAUUU G AUCAGGC	6730	GCCGUGAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUUC	25106
7524	UUGAUCAC G GCCGACG	6731	GCUGGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGAUCAA	25107
7533	GCCGACG G GUGACGCU	6732	AGCGUCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUGGCG	25108
7536	GCAAGCGG G ACGCUUUG	6733	CAAAAGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCGCGUC	25109
7544	GACGCUU G GGAGAU	6734	CAUUCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAAGCGUC	25110
7545	ACGCUUUG G GAGAUUG	6735	CCAUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAAGCGU	25111
7546	CGCUUUG G AGAUUGA	6736	UCCAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAAAGCG	25112
7548	CUUUGGA G AUUGGAGC	6737	GCUCUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCCAAG	25113
7552	GGAGAAU G GAGCAAGC	6738	GCUUGCUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUCC	25114
7553	GGAGAAU G AGCAAGCU	6739	AGCUUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUUCUC	25115
7568	CUUGUUU G GAGGCAA	6740	UUGCGUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAACAGAG	25116
7569	UCUGUUUG G AAGCAAC	6741	GUUGCGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAAACAGA	25117
7588	CUGCCAUC G GACUCUGC	6742	GCAGAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGGCAG	25118
7589	UGCCAUC G ACUCUGCC	6743	GGCAGAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUGGCA	25119
7609	UACUGCGU G GGGUUGG	6744	CCAAACCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCAUGA	25120
7610	CAUGCGUG G GGUUGGU	6745	ACCAACCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACGCAUG	25121
7611	AUGCGUGG G GGUUGGU	6746	AACCAACC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACGCAU	25122
7612	UUGCGUGG G GUUGGUUG	6747	CAACCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCACGCA	25123
7616	UGGGGGUU G GUUGUCAU	6748	AUGACAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCCCA	25124
7640	CAUAACAU G GACACUCA	6749	UGAGUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUAUG	25125
7641	AUAACAUG G ACACUCAU	6750	AUGAGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGUUAU	25126
7653	CUCAUAAA G AACAUGGA	6751	UCCAUGUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAUAGAG	25127
7659	AAGAACAU G AAAAACC	6752	GGUUUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUUCUU	25128
7660	AGAACAUG G AAAACCA	6753	UGUUUUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUGUUCU	25129
7669	AAAAACCA G GACUAAAA	6754	UUUUUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGGUUUUU	25130
7670	AAAAACCA G ACUAAAAA	6755	UUUUUAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGUUUU	25131
7679	ACUAAAAA G AGUGGGG	6756	CCCCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUAGU	25132
7681	UAAAAAGA G GUUGGGCA	6757	UGCCCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUUUUA	25133
7684	AAAGAGGU G GGCACAAA	6758	UUUUUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACCUCUUU	25134
7685	AAGAGGUG G GGCACAAAG	6759	CUUUUGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CACCCUUU	25135
7686	AGAGGUGG G GCAAAAGG	6760	CCUUUUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCACCCUU	25136
7693	GGGCAAAA G GAGGCACC	6761	GGUGGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUGCCC	25137
7694	GGCAAAAG G ACGCACCU	6762	AGGUGCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUGCC	25138

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7704	CGCACCUU G	GGAGAGGU	6763	ACUCUCC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAGGUGCG	25139
7705	GCACCUUG G	GAGAGGUU	6764	AACCCUC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAAGGUGC	25140
7706	CACCUUGG G	AGAGGUUU	6765	AAACCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAAGGUG	25141
7708	CUUGGGGA G	AGGUUUGG	6766	CAAAACCU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCCAAGG	25142
7710	UUUGGGGA G	GUUUGGAA	6767	UUCCAAAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUCCCAA	25143
7715	AGAGGUUU G	GAAAGAAA	6768	UUUCUUUC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAACCUUC	25144
7716	GAGGUUUG G	AAAGAAAG	6769	UUUCUUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAACCCUC	25145
7720	UUUGGAAA G	AAAGACUC	6770	GAGUCUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCAAA	25146
7724	GAAAGAAA G	ACUCAACC	6771	GGUUGAGU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCUUUC	25147
7734	CUCAACCA G	AUGACAAA	6772	UUUGUCAU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUUGAG	25148
7737	AACCAGAU G	ACAAAAGA	6773	UCUUUUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUGGUU	25149
7744	UGACAAA G	AGAGUUUC	6774	GAAACUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUGUCA	25150
7747	CAAAAGAA G	AGUUCACU	6775	AGUGAACU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUUG	25151
7757	GUUCACUA G	GUACCGCA	6776	UGCGGUAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGUGAAC	25152
7768	ACCGCAAA G	AGGCCAUC	6777	GAUGGCCU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGCGGU	25153
7770	GGCAAGA G	GCCAUCAU	6778	AUGAUGGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUUGCG	25154
7780	CCAUAUC G	AGUCGAU	6779	AUGACUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAUGAUGG	25155
7786	UGGAAGUC G	AUCGCUCA	6780	UGAGCGAU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GACUUCGA	25156
7797	GCUCAGC G	GCAAAACA	6781	UGUUUUGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCUGAGCG	25157
7811	ACACGCCA G	GAAAGAAG	6782	CUUCUUUC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGCGUGU	25158
7812	CACGCCAG G	AAAGAAGG	6783	CUUCUUUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGGCGUG	25159
7816	CCAGGAAA G	AGGGCAU	6784	AUUGCCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCUGG	25160
7819	GGAAGAA G	GCAAUUGC	6785	GACAUUGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUUUUCC	25161
7831	AUGUCACU G	GAGGGCAU	6786	AUGCCCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUGACAU	25162
7832	UGUCACUG G	AGGGCAUC	6787	GAUGCCCU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUGACA	25163
7834	UCACUGGA G	GGCAUCCA	6788	UGGAUGCC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCAGUGA	25164
7835	CACUGGAG G	GCAUCCAG	6789	CUGGAUGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCAGUG	25165
7850	AGUCUCUA G	GGGCACAG	6790	CUGUGCCC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGAGACU	25166
7851	GUUCUAG G	GGCACAGC	6791	GCUGUGCC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUAGAGAC	25167
7852	UCUCUAGG G	GCACAGCA	6792	UGCUGUGC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUAGAGA	25168
7866	GCAAAACU G	AGAUGGCU	6793	AGCCAUCU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUUUUUC	25169
7868	AAACUGA G	AUGGCUUG	6794	CCAGCCAU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCAGUUUU	25170
7871	ACUGAGAU G	GCUGGUUG	6795	CGACCCAG GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUCUCAGU	25171
7875	AGAUGGCU G	GUCGAACG	6796	CGUUCGAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGCCAUCU	25172
7879	GGCUGGUC G	AACGGAGG	6797	CCUCCGUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GACCAACC	25173
7883	GGUCGAAC G	GAGGUUUC	6798	GAAACCUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUUCGACC	25174
7884	GUCGAACG G	AGGUUUUC	6799	AGAAACCU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CGUUCGAC	25175
7886	GGAACGGA G	GUUUUCUG	6800	CGAGAAAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGUUUG	25176
7894	GUUUUCUC G	AACCGGUC	6801	GACCGGUU GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GAGAAACC	25177
7899	CUCGAAC G	GUCGGAAA	6802	UUUCCGAC GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGUUCGAG	25178

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7903	AACCGUC G GAAAGUG	6803	CACUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GACCGGUU	25179
7904	ACCGGUC G AAAAGUGA	6804	UCACUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGACCGGU	25180
7911	GGAAAGU G AUGACCU	6805	AGGUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUUCC	25181
7915	AAGUGAU G ACCUUGA	6806	UCCAAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAUCACUU	25182
7921	UUGACCU G GAUGUGA	6807	UCCACAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAGUCA	25183
7922	UGACCUU G AUGUGAA	6808	UUCACAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAAGGUCA	25184
7927	UUGGAUG G GAAGAGC	6809	GCCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUCAA	25185
7928	UGGAUG G AAGAGCG	6810	CGCCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACAUCCA	25186
7931	AUGUGAA G AGCGGUU	6811	AACCGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCACAU	25187
7933	GUGGAAG G GCGGUUG	6812	CCAACGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCCAC	25188
7936	GAAGGC G GUUGUGU	6813	ACACCAAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUCUUC	25189
7940	AGCGGUU G GUUUAU	6814	AGUAACAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACCGCU	25190
7953	UACUAU G GCAACCA	6815	UGGUUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUAAGUA	25191
7967	CCAAAAA G AGUCCAAG	6816	CUUGGACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUUUUGG	25192
7975	GAGUCAA G AAGUCAGA	6817	UCUGACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGACUC	25193
7982	AGAUGCA G AGGUACA	6818	UGUACCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGACUUCU	25194
7984	AAGUCAG G GUUACACA	6819	UGUGUAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUGACUU	25195
7985	AGUCAGAG G GUACACAA	6820	UUGUGUAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCUGACU	25196
7995	UACAAAA G GCGGUUCC	6821	GGACCGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGUGUA	25197
7996	ACAAAG G GCGGUCCC	6822	GGGACGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUUGU	25198
7999	CAAGGC G GUCCGGA	6823	UCCGGAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCUUUUG	25199
8005	GCGGUCC G GACAUGAA	6824	UUCAGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGGACCGC	25200
8006	CGGUCCC G ACAUGAAG	6825	CUUCAUG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGGACCG	25201
8011	CCGACAU G AAGGCCC	6826	GGGUCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUCCGG	25202
8014	GACAUGA G AGCCCAA	6827	UUGGGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAUGUC	25203
8038	AAAGUUAU G GAUGGAAC	6828	GUUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUAAUUU	25204
8039	AAGUUAUG G AUGGAACA	6829	UGUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUAACUU	25205
8042	UAUGGAU G GAACAUTG	6830	CAUUGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCAUA	25206
8043	UAUGGAU G AACAUTU	6831	ACAUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCCAUA	25207
8058	GUACCAU G AAGAGUG	6832	CCACUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGGUGAC	25208
8061	ACCAUGAA G AGUGAGU	6833	ACUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAUGGU	25209
8065	UGAAGAGU G GAGUGAU	6834	AUCCACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCUUA	25210
8066	GAAGAGU G AGUGAUG	6835	CAUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACUUCU	25211
8070	AGUGAGU G GAUGUUA	6836	AACACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUCCAU	25212
8071	GUGGAGU G AUGUUC	6837	GAACAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACUCCAC	25213
8084	GUUCUACA G ACCUUG	6838	CAGAAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUAGAAC	25214
8092	GACUUCU G AGUGUUG	6839	ACAACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGGUC	25215
8101	AGUGUUG G ACACCCU	6840	GAGGUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAACAU	25216
8116	UCCUUUGU G ACAUGGA	6841	UCCGUGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACNAAGGA	25217
8122	GUGACAU G GAGAUCC	6842	GGACUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAUGUCAC	25218

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8123	UGACUUG G AGAGUCCU	6843	AGGACUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAUGUCA	25219
8125	ACAUCGGA G AGUCCUG	6844	CGAGGACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGACUGU	25220
8143	CAAGUCU G AGUUGAA	6845	UUAACCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGCAGUUG	25221
8145	AGUGUGA G GUUGAAGA	6846	UUUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UGACACU	25222
8149	CUAGGUU G AAGAGCAU	6847	AUGUCUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACUCAG	25223
8152	AGGUUGA G AGCAUAGG	6848	CUAUGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUAACCU	25224
8159	AGAGCAUA G GACGAUUC	6849	GAUUCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUGCUCU	25225
8160	GAGCAUAG G ACGAUUCG	6850	CGAAUCGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUAUGCUC	25226
8163	CAUAGGAC G AUUCGGGU	6851	ACCGAAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUCCUAG	25227
8168	GACGAUUC G GUCCUUG	6852	CAAGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GAUUCGUC	25228
8169	ACGAUUCG G GUCCUUGA	6853	UCAAGGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CGAAUCGU	25229
8176	GGUCCUU G AAUUGGUU	6854	AACCAUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AAGACCC	25230
8181	CUUGAAU G GUUGAGGA	6855	UCCUACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUUUAAG	25231
8185	AAUGGUU G AGGACUGG	6856	CCAGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AACCAUU	25232
8187	AUGGUUGA G GACUGGCU	6857	AGCCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCAACCAU	25233
8188	UGGUUGAG G ACUGGCGU	6858	CAGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCAACCA	25234
8192	UGAGGACU G GUGCACC	6859	GGUGCAG GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCUCA	25235
8201	GCUGCACC G AGGGCCNA	6860	UUGGCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GUGCAGC	25236
8203	UGCACCGA G GGCCAAGG	6861	CUUGGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCGUGCA	25237
8204	GCACCGAG G GCCAAGGG	6862	CCUUGGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUCGGUC	25238
8210	AGGGCAA G GGAUUUUU	6863	AAAUUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUGGCCU	25239
8211	GGGCCAG G GAUUUUUG	6864	CAAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGCC	25240
8212	GGCCAAGG G AAUUUUGC	6865	GCAAAUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CUUUGGC	25241
8223	UUUUGGU G AAGGUGCU	6866	AGCACCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG ACGCAAAA	25242
8226	UGCGUGAA G GUGCUCU	6867	CAGAGAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCAGCA	25243
8247	UACAUGCC G AAAGUCAU	6868	AUGACUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GGCAUGA	25244
8257	AAGUCAUA G AGAAGAUG	6869	CAUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UAUGACU	25245
8259	GUCAUGA G AAGAUGGA	6870	UCCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UCUAUGAC	25246
8262	AUAGAGAA G AUGGAGCU	6871	AGCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCU	25247
8265	GAGAAGAU G GAGCUCU	6872	AGCAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUCUUCU	25248
8266	AGAAGAU G AGCUGCUC	6873	GAGCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCUUCU	25249
8282	CCAACGCC G GUUUGGG	6874	CCCCAUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUUGG	25250
8287	GCCGGUUAU G GGGGGGA	6875	UCCCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG AUACCGC	25251
8288	CCGUUAUG G GGGGGAC	6876	GUCCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CAUACCG	25252
8289	CGGUUUG G GGGGGACU	6877	AGUCCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUACCG	25253
8290	GGUUAUGG G GGGGACUG	6878	CAGUCCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCAUACC	25254
8291	GUUUGGG G GGGACUGG	6879	CCAGUCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCAUAC	25255
8292	UAUGGGGG G GGACUGGU	6880	ACCAGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCCAU	25256
8293	AUGGGGGG G GACUGGU	6881	GACCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCCAU	25257
8294	UGGGGGGG G ACUGUCA	6882	UGACCAGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGGG CCCCCCA	25258

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8298	GGGGGACU G GUCAGAAA	6883	UUUCUGAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUCCCCC	25259
8303	ACUGGUCA G AAACCCAC	6884	GUGGGUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGACCAGU	25260
8318	ACUCACAC G AAUUCOA	6885	UGGAUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUGAGAGU	25261
8319	CUCACAG G AAUCCAC	6886	GUGGAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUGAGAG	25262
8332	CCACGAC G AGAUGAU	6887	ADACAUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUGGUGG	25263
8334	ACGCACGA G AUGUAUUG	6888	CAUAACAU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCGUGCGU	25264
8342	GAUGUAUU G GGUGAGUC	6889	GACUCACC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AAUACAUC	25265
8343	AUGUAUUG G GUGAGUCG	6890	CGACUCAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUAACAU	25266
8346	UAUUGGU G AGUCGAGC	6891	GCUCGACU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACCCAUA	25267
8351	GGUGAGUC G AGCUUCAG	6892	CUGAAGCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GACUCACC	25268
8359	GAGCUUCA G GCAAUGUG	6893	CACAUUGC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGAAGCUC	25269
8367	GGCAUUG G GUACAUUC	6894	GAUUGUAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACAUUGCC	25270
8379	CAUUCAGU G AAUAUGAC	6895	GUCAUAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUGAAUG	25271
8385	GUAAUAU G ACCAGCCA	6896	UGGCUUGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUAUCAC	25272
8394	ACCAGCCA G GUGUCCU	6897	AGGAGCAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGGUGGU	25273
8404	UGCUCUA G GAAGAAUG	6898	CAUUCUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UAGGAGCA	25274
8405	GCUCUAG G AAGAAUGG	6899	CCAUCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUAGGAGC	25275
8408	CUAGGAA G AAUGGAAA	6900	UUUCAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUAGG	25276
8412	GGAGAUAU G GAAAAAG	6901	CUUUUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AUUCUUC	25277
8413	GAAGAUAU G AAAAAAG	6902	CUUUUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAUUCUUC	25278
8420	GGAAAAA G GACCUGGA	6903	UCCAGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUUUUUCC	25279
8421	GAAAAAA G ACTUGGAA	6904	UUCAGGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUUUUUC	25280
8426	AAGGACCU G GAAGGAC	6905	GUCCUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGGUCCUU	25281
8427	AGGACCU G AAGGACC	6906	GGUCCUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAGGUCCU	25282
8430	ACUUGGA G GGACCCCA	6907	UGGGUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCACAGU	25283
8431	CUUGGAG G GACCCCAA	6908	UUGGGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUCCAGG	25284
8432	CUUGAAG G ACCCCAAU	6909	AUUGGGU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUUCCAG	25285
8443	CCCAUAC G AGGAAGAU	6910	AUCUUCU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GUUUUGG	25286
8445	CAUACGA G GAAGAUGU	6911	ACAUCUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UCGUAUUG	25287
8446	AAUACGAG G AAGAUGUA	6912	UACAUUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUCGUAUU	25288
8449	ACGAGGAA G AUGUAAC	6913	GUUUAUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UUCUUCGU	25289
8460	GUAAAUU G GGAUGUG	6914	CCAUUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG AGUUUAC	25290
8461	UAAAUUG G GAAGUGGA	6915	UCCAUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CAAGUUUA	25291
8462	AAACUUG G AAGUGGAA	6916	UUCACUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CCAAGUUU	25292
8467	UGGAAGU G GAACAGG	6917	CCUGGUUC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACUCCCA	25293
8468	GGGAAGU G AACAGGG	6918	CCUUGUU GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CACUCC	25294
8474	UGGAACCA G GGCGUGG	6919	CCACGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG UGGUCCCA	25295
8475	GGAAACCA G GCUGUGG	6920	CCACGCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG CUGGUUCC	25296
8478	ACCAGGC G GUGGAAA	6921	UUUCCAC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG GCCUGGU	25297
8481	AGGCGGU G GGAACAAC	6922	GGUUUCC GGA GCGGUUAGGC UCCCUUCAAGGA GCGGUUAGGC UCCGGG ACCGCCU	25298

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8482	GGGCGGUG G GAAACCC	6923	GGGUUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CACCGCCC	25299
8483	GGCGGUGG G AAAACCCC	6924	GGGUUUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CCACCGCC	25300
8503	UCAAUCUA G ACACAGU	6925	ACUGGUG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGAGUUGA	25301
8520	AAAUAAC G AACAGAU	6926	AUCUGUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUGAUUUU	25302
8525	CAAGACA G GAUUGAC	6927	GUUCAUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUUUCUG	25303
8526	AAGACAG G AUGAACG	6928	CGUCAAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUGUUCUU	25304
8530	ACAGAAU G AACGACUC	6929	GAGUCGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAUCUGU	25305
8534	GAUUAAC G ACUCAGGC	6930	GCCUGAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUUCAUC	25306
8540	ACGACUA G GCGUGAGU	6931	ACUCAGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGAGUCGU	25307
8545	UCAGGCGU G AGUACAGU	6932	ACUGUACU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACGCCUGA	25308
8556	UACAGUUC G ACUGGCA	6933	UGCCACGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GAACUGUA	25309
8561	UUCGACGU G GCACCACG	6934	CGUGGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACGUCGAA	25310
8569	GGACCAC G AGAGAAC	6935	GUUCUAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUGUGGCC	25311
8572	ACCAGAU G AGAACAC	6936	GUGUUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGUGGU	25312
8574	CACGAUGA G AACCAACC	6937	GGUGGUTU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCAUCGUG	25313
8588	CCCAUAUA G AACCUAGA	6938	UCCAGGUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUAUUGGG	25314
8594	UAGAACC G GAACUAUC	6939	GAUAGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGGUUCUA	25315
8595	AGAACCUG G AACUAUCA	6940	UGAUAGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAGGUUCU	25316
8605	ACUAUCAC G GCAGUUUA	6941	AUAACUCG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUGAUAGU	25317
8614	GCAGUAU G AUGUGAAG	6942	CUUACAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUAACUCG	25318
8619	UAUGAUGU G AAGCCAC	6943	GUGGCGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACAUCAUA	25319
8629	AGCCACA G GCUCCGCC	6944	GCGGAGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUUGGCU	25320
8646	AGUUGCU G GUCAUUG	6945	CCAUTGAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGCGAACU	25321
8653	UGGUCAAU G GAGUGGUC	6946	GACCACUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUUGACCA	25322
8654	GGUCAAUG G AGUGGUCA	6947	UGACCACU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAUUGACC	25323
8658	AUUGAGU G GUCAGGCU	6948	AGCUUAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUCCAUU	25324
8663	AGUGGUCA G GCUUCUUC	6949	AGAGGAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGACCACU	25325
8681	AAACCAU G GGACACCA	6950	UGGUGUCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGGUUUU	25326
8682	AAACCAUG G GACACCAU	6951	AUGGUGUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAUGGUUU	25327
8683	AACCAUG G ACACCAUC	6952	GAUGGUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CCAUGGUU	25328
8694	ACCAUAC G AAUGUAC	6953	GUAACAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GUGAUGGU	25329
8709	ACCACCAU G GCCAUGAC	6954	GUCAUGGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGGUGGU	25330
8715	AUGGCCAU G ACUGACAC	6955	GUGUCAGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGGCCAU	25331
8719	CCAUGACU G ACACUACU	6956	AGUAGUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGUCAUGG	25332
8734	CUCCUUC G GGCAGCAG	6957	CUGUGCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GAAGGGAG	25333
8735	UCCCUUC G GCAGCAGC	6958	GCUGUGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CGAAGGGA	25334
8744	GCAGCAGC G AGUUAUCA	6959	UGAACACU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCUGCUGC	25335
8755	UGUUCAAA G AGAAGGUG	6960	CACCUUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUGAACA	25336
8757	UUCAAAGA G AAGUGGGA	6961	UCCACCUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCUUUGAA	25337
8760	AAAGAGAA G GUGACAC	6962	GUGUCCAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCUCUUU	25338

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8763	GAGAGGU G GACACGAA	6963	UUCGUGUC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG ACCUUCUC	25339
8764	AGAAGGUG G ACACGAAA	6964	UUUCGUGU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG CACCUUCU	25340
8769	GUGGACAC G AAGCUCC	6965	GGAGGUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG GUGUCCAC	25341
8779	AAGCUCCU G AACGCGCA	6966	UGGCGGUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AGGAGCUU	25342
8788	AACGCGCA G AAGGAGUG	6967	CACUCCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AGGCGGUU	25343
8791	CGCGCCA G GAGUGAAG	6968	CUUCACUC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UUCUGGCG	25344
8792	GCCAGAAG G AGUGAAGU	6969	ACUUCACU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG CUUCUGGC	25345
8796	GAAGGAGU G AAGUACGU	6970	ACGUACU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG ACUCCUUC	25346
8812	UGUUCAAU G AGACCACC	6971	GGUGGUCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AUUGAGCA	25347
8814	CUCAUGA G ACCACCAA	6972	UUGGUGGU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UCAUUGAG	25348
8825	CACCAACU G GUUGUGG	6973	CCCAAC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AGUUGGUG	25349
8831	CUUGUGU G GCGGUUUU	6974	AAAACGCC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG ACAACCCAG	25350
8832	UGGUUGUG G GCGUUUUU	6975	AAAACGC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG CACAACCA	25351
8841	GCGUUUUU G GCCAGAGA	6976	UCUCUGGC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AAAACCGC	25352
8846	UUUGGCCA G AGAAAAC	6977	GUUUUCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UGGCCAAA	25353
8848	UGGCCAGA G AAAAACGU	6978	ACGUUUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UCUGGCCA	25354
8861	ACGUCCCA G AAUGUGCU	6979	AGCACAUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UGGGACGU	25355
8873	GUUCUCUC G AGAGGAUU	6980	AUUCUCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG GAGAGCAC	25356
8875	GCUCUGA G AGGAUUC	6981	GAUUCCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UCGAGAGC	25357
8877	UCUCGAGA G GAUUCAU	6982	AUGAAUUC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UCUCGAGA	25358
8878	CUUGAGAG G AAUUCAU	6983	UAUGAAU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG CUCUCGAG	25359
8888	AUUCAUAA G AAAGGUCA	6984	UGAACUUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UUAUGAAU	25360
8892	AUAAGAAA G GUCAACAG	6985	CUGUUGAC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UUUCUUUU	25361
8913	GCAGCUUU G GUGGCCAU	6986	AUGGCAC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AAAGCUGC	25362
8914	CAGCUUUG G GUGCCAUG	6987	CAUGGCAC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG CAAAGCUG	25363
8926	CCAUGUUU G AAGAGCAG	6988	CUGGUCUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AAACAUGG	25364
8929	UGUUUGAA G AGCAGAAU	6989	AUUCUGCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UUCAACA	25365
8934	GAAGAGCA G AAUCAUUG	6990	CAUUGAUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UGCUCUUC	25366
8942	GAUCAAU G GAGAGCG	6991	CGUUCUC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AUUGAUTUC	25367
8943	AAUCAUUG G AGGAGCGC	6992	GCGUCUCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG CAUUGAUU	25368
8945	UCAUUGGA G GAGCGCCA	6993	UGGCGCTC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UCCAUUGA	25369
8946	CAAUUGGAG G AGCGCCAG	6994	UUGGCGCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UCCCAUUG	25370
8954	GAGCGCCA G AGAAGCAG	6995	CUGGCUUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UGGCGCUC	25371
8956	GCGCCAGA G AAGCAGUU	6996	AACUGCUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UCUGGCGC	25372
8965	AAGCAGUU G AAGAUCCA	6997	UGGAUCUU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AACUGCUU	25373
8968	CAGUUGAA G AUCCAAAA	6998	UUUUGGAU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UUCAACUG	25374
8981	AAAAUUUU G GGAGAUGG	6999	CCAUCUCC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG AAAAUUUU	25375
8982	AAAUUUUG G GAGAUGGU	7000	ACCAUCUC GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG CAAAAUUU	25376
8983	AAUUUUUG G AGAUGGUG	7001	CACCAUCU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG CAAAAAUU	25377
8985	UUUUGGGA G AUGGUGGA	7002	UCCACCAU GGA GCGUUAAGGC UCCCUUCAAGGA GCGGUUAAGGC UCCGGG UCCCAAAA	25378

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8988	UGGAGAU G GUGGAUGA	7003	UCAUCCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUUCUCCA	25379
8991	GAGAUGU G GAUGAGGA	7004	UCCUCAUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAUCUC	25380
8992	AGAUGUG G AUGAGGAG	7005	CUCCUCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CACCAUCU	25381
8995	UGUUGAU G AGGAGCGC	7006	GGCUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCCACCA	25382
8997	GUGGAUGA G GAGCGCGA	7007	UGCGGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAUCCAC	25383
8998	UGGAUGAG G AGCGCGAG	7008	CUCGCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUAUCCA	25384
9004	AGGAGCGC G AGGCACAU	7009	AUGUGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCGUCCU	25385
9006	GAGCGGA G GCACAUU	7010	AGAUGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCGCGCUC	25386
9017	ACAUCUGC G GGGGGAU	7011	AUUCGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGAUU	25387
9018	CAUCUGCG G GGGGAUG	7012	CAUUCGCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGCAGAU	25388
9019	AUCUGCGG G GGGAAUGU	7013	ACAUUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCAGAU	25389
9020	UCUGCGGG G GGAUGUC	7014	GACAUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCAGA	25390
9021	CUGCGGGG G GAAUGUCA	7015	UGACAUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCGAG	25391
9022	UGCGGGGG G AAUGUCAC	7016	GUGACAUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCGCGCA	25392
9048	UACAACAU G AUGGGAAA	7017	UUUCCAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUGUGUA	25393
9051	AACAUGAU G GGAAGAG	7018	CUCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AUCAUGU	25394
9052	ACAUGAU G GAAAGAGA	7019	UCUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAUCAUGU	25395
9053	CAUGAUGG G AAAGAGAG	7020	CUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCAUCAUG	25396
9057	AUGGGAA G AGAGAGAA	7021	UUCUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCUCAU	25397
9059	GGGAAGA G AGAGAAAA	7022	UUUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCC	25398
9061	GAAAGAGA G AGAAAAA	7023	UUUUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUCUUU	25399
9063	AAAGAGA G AAAAACC	7024	GUUUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCUUCUU	25400
9073	AAAAACC G GAGAGUUC	7025	GAACUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGUUUUU	25401
9074	AAAACCG G AGAGUUCG	7026	CGAACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGGUUUU	25402
9076	AACCCGA G AGUUCGGA	7027	UCCGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGGUU	25403
9082	GAGAUUC G GAAAGGCC	7028	GGCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAAUCUC	25404
9083	AGAUUCG G AAAGGCCA	7029	UGGCCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGAACUCU	25405
9087	UUCGGAA G GCCAAGGG	7030	CCUUGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCCGAA	25406
9093	AAGCCAA G GGAAGCAG	7031	CUGCUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUGCCUU	25407
9094	AGCCAG G GAAGCAGA	7032	UCUGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUGGCCU	25408
9095	GGCCAGG G AAGCAGAG	7033	CUCUGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CCUUGGCC	25409
9101	GGGAACA G AGCCAUU	7034	AAUUGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGUUCCC	25410
9110	AGCCAUU G GUUCAUGU	7035	ACAUGAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAUGGU	25411
9119	GUUCAUGU G GCUCCGAG	7036	CUCGAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACAUGAAC	25412
9124	UGUGGCU G GAGCUCG	7037	GGGAGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAGCCACA	25413
9125	GUGGCU G AGCUCGU	7038	AGCAGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGCCAC	25414
9138	CGCUUCU G GAGUUCGA	7039	UCGAACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGAAGCG	25415
9139	GCUCUCU G AGUUCGAG	7040	CUCGAACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGAAAGC	25416
9145	UGGAGUUC G AGGCUUCU	7041	CAGAGCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAACUCCA	25417
9147	GAGUUGA G GCUCUGGG	7042	CCCAGAG GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCGAACUC	25418

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9153	GAGGCUU G GGUUUUU	7043	AGAAACC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGAGCCUC	25419
9154	AGGCUUG G GUUUUCU	7044	GAGAAAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAGAGCCU	25420
9166	UUUCAAU G AAGACCAC	7045	GUGGUCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUUGAGAA	25421
9169	UCAUGAA G ACCACUGG	7046	CCAGUGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUCAUGA	25422
9176	AGACCACU G GCUUGGAA	7047	UUCCAAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGUGUCU	25423
9181	ACUGGCUU G GAAGAAAG	7048	CUUUUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCCAGU	25424
9182	CUGGCUU G AAGAAGA	7049	UCUUUCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAGCCAG	25425
9185	GUUGGAA G AAGAACU	7050	AGUUUCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCCAAGC	25426
9189	GGAGGAA G AACUCAGG	7051	CCUGAGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUUUUCC	25427
9196	AGAACUA G GAGAGGU	7052	ACUCCUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UGAGUUCU	25428
9197	GRACUCAG G AGAGGUG	7053	CACUCCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUGAGUUC	25429
9199	ACUCAGGA G GAGGUC	7054	GACACCUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCUGAGU	25430
9200	CUCAGGAG G AGGUGUC	7055	CGACACCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUCCUGAG	25431
9202	CAGGAGGA G GUGUCGAG	7056	CUCGACAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCCUCCUG	25432
9208	GAGGUCU G AGGCUUG	7057	CAAGCCU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GACACCU	25433
9210	GGUGUCA G GGUUGGG	7058	CCCAAGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCGACACC	25434
9211	GUGUCGAG G GCUUGGC	7059	GCACAAG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CUCGACAC	25435
9216	GAGGCGU G GGCUCCA	7060	UGGAGCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAGCCU	25436
9217	AGGCGUUG G GCUCCAA	7061	UUGAGGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAGCCU	25437
9231	CAAAACU G GGUUACAU	7062	AUGUACC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGUUUUG	25438
9232	AAAAACU G GUUACAU	7063	GAUGUAC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAGUUUU	25439
9247	UUCUGCGU G AAGUUGC	7064	GCCAACU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG ACAGGAA	25440
9253	GUGAAGUU G GCACCCG	7065	CCGGGUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AACUAC	25441
9260	UGGCACCC G GCUUGGG	7066	CCCCAGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GGGUGCCA	25442
9265	CCGGCCU G GGGCAAG	7067	CUUGCCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGGCCGG	25443
9266	CCGGCCUG G GGGCAAGA	7068	UCUUGCC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAGGCCG	25444
9267	CGGCCUG G GCAAGAU	7069	AUCUUGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCAGGCC	25445
9268	GGCCUGG G GCNAGUC	7070	GAUCUUG GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCCAGCC	25446
9273	GGGGGCAA G AUUAUGC	7071	GCAUAGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UUGCCCC	25447
9283	UCUAUGCU G AUGACACA	7072	UGUGUCAU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCAUAGA	25448
9286	AUGCUGAU G ACACAGCU	7073	AGCUGUGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AUCAGAU	25449
9295	ACACAGCU G GUGGGAC	7074	GUCCAGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCUGUG	25450
9299	AGGUGCU G GCACACC	7075	GGGUGUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCCAGU	25451
9300	GCUGGCU G GACACCC	7076	CGGGUGC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAGCCAG	25452
9301	CUGGCU G ACACCCG	7077	GGGGUGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CCAGCCAG	25453
9315	CGCAUCAC G AGAGCUGA	7078	UCAGCUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG GUGAUGC	25454
9317	CAUCACGA G AGCUGAU	7079	AGUCAGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG UCGUAUG	25455
9322	CGAGAGCU G ACUUGGAA	7080	UUCCAAGU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AGCUCUG	25456
9327	GCUGACU G GAAAAUGA	7081	UCAUUUC GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG AAGUCAGC	25457
9328	CUGACUUG G AAAAUGAA	7082	UUAUUUU GGA GCGUUUAGGC UCCUUUCAAGGA GCGUUUAGGC UCCGGG CAAGUCAG	25458

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9334	UGAAAAU G AAGCUAG	7083	CUUAGCUU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUUUCCA	25459
9342	GAAGCUAA G GUGCUUGA	7084	UCAAGCAC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UAGCUUC	25460
9349	AGGUGCUU G AGCUGCUU	7085	AAGCAGCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAGCAGCU	25461
9358	AGCUGCUU G AUGGGGAA	7086	UUCGCCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAGCAGCU	25462
9361	UGCUUGAU G GGAACAUA	7087	AUGUCCG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCAAGCA	25463
9362	GUUGAUG G GGAACAUC	7088	GAUGUCC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUCAAGC	25464
9363	UUGAUGG G GAACAUCG	7089	CGAUGUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCAUCAAG	25465
9364	UUGAUGG G AACUUCG	7090	CCGAUGG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCAUCAAA	25466
9371	GGAACAUC G GCGUCUUG	7091	CAAGAGC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GAUGUUC	25467
9383	UCUUGCCA G GGCCAUA	7092	UAAGGGC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGGCAAGA	25468
9384	CUUGCCAG G GCAUCAU	7093	AUGAUGC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUGGCAAG	25469
9394	CCAUCAU G AGCUCACC	7094	GGUGAGCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AAUGAUGG	25470
9420	AAAGUUG G AAAGUGAU	7095	AUCACUU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACAACUUU	25471
9426	GUGAAGU G AUGGCCCC	7096	GGGCGCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACUUCAC	25472
9435	AUGGCCCC G GUGGCUA	7097	UCAGCAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG GGGGCAU	25473
9442	CGGCGCU G AUGGAAGA	7098	UCUUCCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGCAGCG	25474
9445	GUGGUGAU G GAAGAACC	7099	GGUUCUUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCAGCAG	25475
9446	GUGGUGAU G AAGAACCG	7100	CGGUUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUCAGCA	25476
9449	UGAUGGAA G AACGCUA	7101	UGACGGU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCCAUCA	25477
9459	ACCGUCAU G GAUGUUAU	7102	AUAACAUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUGACGU	25478
9460	CCGUCUAG G AUGUUAUC	7103	GAUACAUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUGACGG	25479
9473	UAUCCCA G AGAAGAU	7104	GAUCUUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGGAGUA	25480
9475	UCUCCAGA G AAGUACAG	7105	CUGAUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCUGAGA	25481
9478	CCAGAGAA G AUCAGAGG	7106	CCUCUGAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UUCUCUGG	25482
9483	GAAGAUCA G AGGGGAG	7107	CUCCCCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UGAUCUUC	25483
9485	AGAUCAGA G GGGGAGUG	7108	CACUCCC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCUGAUCU	25484
9486	GAUCAGAG G GGGAGUG	7109	CCACUCC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUCUGAUC	25485
9487	AUCAGAGG G GAGUGGA	7110	UCCACUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCUCUGAU	25486
9488	UCAGAGGG G GAGUGGAC	7111	GUCCACU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCCUCUGA	25487
9489	CAGAGGG G AGUGGACA	7112	UGUCCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CCCUCUG	25488
9493	GGGGAGU G GACAAGUU	7113	AACUJUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACUCCCC	25489
9494	GGGGAGUG G ACAAGUUG	7114	CAACUUGU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CACUCCCC	25490
9534	ACCAACCU G GCGGUCCA	7115	UGGACGC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGGUUGU	25491
9546	GUCCAGCU G GUGAGGAU	7116	AUCCUAC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AGCUGGAC	25492
9549	CAGCUGGU G AGGAAGAU	7117	GAUACUUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG ACCAGCUG	25493
9551	GCUGGUGA G GAUGAUGG	7118	CAUCAUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG UCACACAG	25494
9552	CUGGUGAG G AUGAUGGA	7119	UCCAUCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CUCACAG	25495
9555	GUGAGGAU G AUGGAAGG	7120	CCUUCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCCUCAC	25496
9558	AGGAUGAU G GAAGGGGA	7121	UCCCUUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG AUCAUCU	25497
9559	GGAUGAU G AAGGGGAA	7122	UUCCCUU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGG CAUCAUC	25498

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9562	UGAUGGAA G GGAAGGA	7123	UCCUUCC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UCCCAUC	25499
9563	GAUGAAG G GGAAGGAG	7124	UCCUUCC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CUUCCAU	25500
9564	AUGAAG G GAAGAGU	7125	ACUCCUUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CUUCCAU	25501
9565	UGAAGG G AAGGAGU	7126	CACUCCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CUUCCAU	25502
9566	AAGGGAA G GAGUAU	7127	AAUACUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UCCCCU	25503
9569	AGGGGAG G AGUGAUG	7128	CAUACU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CUUCCU	25504
9573	GAAGAGU G AUGGCCC	7129	GGGCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG ACUCCU	25505
9577	GAGUAU G GCCCAGU	7130	AUCUGGC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG AAUACUC	25506
9583	UUGGCCA G AUGAUG	7131	CACAUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UGGGCCA	25507
9586	GCCAGAU G AUGGAG	7132	CUCCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG AUCUGGC	25508
9591	GAUGAUG G GAGAAAU	7133	AGUUUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG ACAUAC	25509
9592	AUGAUG G AGAAACU	7134	GAGUUUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CACAUC	25510
9594	GAUGGA G AAACUC	7135	GUGAUUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UCCACUC	25511
9607	UCACAAA G GGAAGGA	7136	UCCUUCC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UUUUGA	25512
9608	CACAAA G GAAAGGAC	7137	GUCCUUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CUUUUG	25513
9609	ACAAAAG G AAAGGACC	7138	GGUCCUU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CCUUUG	25514
9613	AAGGAAA G GACCAAA	7139	UUUGGUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UUUCCU	25515
9614	AGGAAAG G ACCCAA	7140	CUUUGGU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CUUCCU	25516
9626	CAAGUCA G GACCUGG	7141	GCCAGUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UGACUU	25517
9627	AAAGCAG G ACCUGGU	7142	AGCCAGU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CUGAUU	25518
9632	CAGACCU G GCUUUUG	7143	CAACAGC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG AGUCCU	25519
9640	GGUGUUU G AGAUGGG	7144	CCCAUUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG AAACAGC	25520
9642	CUGUUUGA G AAUGGGA	7145	UCCCAUUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UCAACAG	25521
9646	UUGAGAU G GGAAGAA	7146	UUCUCCC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG AUUCUAA	25522
9647	UGAGAU G GGAAGAA	7147	UUUUCC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CAUUCUA	25523
9648	GAGAU G GAAGAA	7148	CUUUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CCAUUC	25524
9649	AGAUGG G AGAAGA	7149	UCUUUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CCAUUC	25525
9652	AUGGGAA G AAAGACU	7150	GAGUCUU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UCCCCU	25526
9656	GGAAGAA G ACUCAGC	7151	GGCUGAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UUCUUC	25527
9669	AGCGCAU G GCUUCAG	7152	CUGACAG GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG AUGCGCU	25528
9679	CUUGCAU G GAGUAGC	7153	GUCAUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG ACUGAC	25529
9680	UGUCAGU G AGAUCU	7154	AGUCAUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CACUGA	25530
9682	UCAGUGA G AUGACUG	7155	ACAGUCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UCCACUGA	25531
9685	GUGAGAU G ACUGUG	7156	CACACAGU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG AUCUCC	25532
9693	GACUGUGU G GUAAGCC	7157	GGUUUAC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG ACACAGC	25533
9705	AAGCCCCU G GACGAUC	7158	CGAUGUC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG AGGGCU	25534
9706	AGCCCCU G ACGAUCG	7159	GCAGUCU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG CAGGGCU	25535
9709	CCUUGGAC G AUCGUUU	7160	AAAGCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG GUCCAGG	25536
9753	AUGUCAA G GUUCGAA	7161	UUGCAAC GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UUGACAU	25537
9763	UUCGCAA G ACAUCAA	7162	UUGCAU GGA GCGUUAGGC UCCUUCAAGGA GCGUUAGGC UCCGGG UUGCGAA	25538

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9772	ACAUCCAA G AGUGGAAA	7163	UUUCCACU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUGGAUGU	25539
9776	CAAAGAGU G GAAACCGU	7164	ACGGUUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUCUUGG	25540
9777	CAAGAGU G AAACCGUC	7165	GACGUUUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACUCUUGG	25541
9790	CGUCAAU G GAUGGUU	7166	AUACCAUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGUUGACG	25542
9791	GUCAACUG G AUGGUUUG	7167	CAUACCAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAGUUGAC	25543
9794	AACUGGAU G GUUUGAUU	7168	AAUCAUAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUCCAGUU	25544
9799	GAUGGUU G AUUGGCAG	7169	CUGGCAAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUACCAUC	25545
9803	GUUUGAUU G GCAGCAGG	7170	CCUGTUGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAUCAUAC	25546
9810	UGGCAGCA G GUUCCAUU	7171	AAUGGAAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGCUGCCA	25547
9838	AUUUCACU G AUUGAUC	7172	GAUCAAUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGUGAAAU	25548
9843	ACUGAAU G AUCAUGAA	7173	UUCAUGAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAUUCAGU	25549
9849	UUGAUCAU G AAAGAUGG	7174	CCAUCUUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUGAUCAA	25550
9853	UCAUGAAA G AUGGAAGA	7175	UCUUCCAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUUCAUGA	25551
9856	UGAAAGAU G GAAGAACA	7176	UGUUCUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUCUUUCA	25552
9857	GAAGAUG G AAGAACAC	7177	GUGUUCUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAUCUUUC	25553
9860	AGAUGGAA G AACACUGG	7178	CCAGUGUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCCCAUCU	25554
9867	AGAACACU G GUGGUUCC	7179	GGAAACCA GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGUUIUCU	25555
9870	ACACUGGU G GUUCCAUG	7180	CAUGGAAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACCAGUGU	25556
9881	UCCAUGCC G AGGACAGG	7181	CCUGUCCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGAUGGA	25557
9883	CAUGCCGA G CACAGGAU	7182	AUCCUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UCGCAUG	25558
9884	AUGCCGAG G ACAGAUG	7183	CAUCCUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUCGGCAU	25559
9888	CGAGGACA G GAUGAAU	7184	AAUUCauc GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUCCUUG	25560
9889	GAGGACAG G AUGAAUUG	7185	CAAUUCAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUGUCCUC	25561
9892	GACAGGAU G AAUUGGUA	7186	UACCAAUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUCCUGUC	25562
9897	GAUGAAU G GUAGGCAG	7187	CUGCCUAC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AAUUCauc	25563
9901	AAUUGGUA G GCAGAGCU	7188	AGCUCUGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UACCAAUU	25564
9905	GUUAGGCA G AGCUCGCA	7189	UGCGAGCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGCUUACC	25565
9922	UAUUCUA G GGGCCGGA	7190	UCCGGCCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGGAGAU	25566
9923	AUUCUCCAG G GGC CGGAU	7191	AUCCGGCC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUGGAGAU	25567
9924	UUCUCCAG G GCGCGAU	7192	CAUCCGGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CUUGGAGA	25568
9928	CAGGGGCC G GAUGGAAC	7193	GUUCCAUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCCUUG	25569
9929	AGGGGCCG G AUGGAACG	7194	CGUCCAUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGCCUUCU	25570
9932	GGCCGGAU G GAACGUCC	7195	GGACGUUC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AUCCGGCC	25571
9933	GCCGGAGU G AACGUCCG	7196	CGACAGUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG CAUCCGGC	25572
9943	ACGUCCGC G ACACUGCU	7197	AGCAGUGU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG GCGGACGU	25573
9957	GUUGUCU G GCUAAGUC	7198	GACUUAAG GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG AGACAGC	25574
9975	UAGUCCCA G AUGUGGCU	7199	AGCCACAU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGGGCAUA	25575
9980	CCAGAUGU G GCUUGCUU	7200	GAACAGC GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG ACAUUGG	25576
10001	CUUCCACA G AAGAGACC	7201	GUUCUCUU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UGUGGAAG	25577
10004	CCACAGAA G AGACCUGC	7202	GCAGGUCU GGA GCGUUUAGGC UCCCUUCAAGGA GCGUUUAGGC UCCGGG UUCUGUGG	25578

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10006	ACAGAGA G ACCUGGG	7203	CCGACAGU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCUCUGU	25579
10013	AGACUUC G GCUCAUG	7204	CCAUGAGC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG GCAGGUCU	25580
10020	CGGCUAU G GCGAACG	7205	GCGUUGC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AUGAGCCG	25581
10050	GUCCUGU G AAUUGGU	7206	ACCAAUU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG ACAGGGAC	25582
10055	UGUAAU G GUUCCUA	7207	UAGGACC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AAUACACA	25583
10056	UGUAUUG G GUCCUAC	7208	GUAGGAC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CAUUCAC	25584
10066	UCCUACC G GAAGAACC	7209	GGUUCUC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG GGUAGGA	25585
10067	CCCUACC G AAGAACA	7210	UGGUUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CGUAGG	25586
10070	UACCGAA G AACACGU	7211	ACUGGUU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UUCGGUA	25587
10079	AACACGU G GUCCAUCC	7212	GGAUGAC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG ACUGGUU	25588
10093	UCCAUGA G GAGGAG	7213	CUCUCCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UGCAUGA	25589
10094	CAUGCAG G AGGAGU	7214	ACUCUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CUGCAUGG	25590
10096	AUGCAGA G GAGUGG	7215	CCACUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCCUGCAU	25591
10097	UGCAGAG G AGUGGA	7216	UCCACUC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCCUGCA	25592
10099	CAGAGGA G AGUGAU	7217	CAUCCACU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCCUCCU	25593
10103	AGGAGAU G GAUGACA	7218	UUGUCAU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG ACUCUCU	25594
10104	GGAGAGU G AUGACAAC	7219	GUUGUCAU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CACUCUC	25595
10107	GAGUGAU G ACAACAGA	7220	UCUGUUG GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AUCCACUC	25596
10114	UGACACA G AGGACAU	7221	CAUGUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UGUUGUA	25597
10116	ACAACAGA G GACAUUU	7222	AACAUGC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCUGUUG	25598
10117	CAACAGAG G ACAUGUG	7223	CAACAUGU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CUCUGUG	25599
10125	GACAUUGU G GAGGUCU	7224	CAGACUC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AACAUUG	25600
10126	ACAUGUUG G AGGUCUG	7225	CCAGACU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CAACAUU	25601
10128	AUGUUGA G GUCUGAA	7226	UCCAGAC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCCAACAU	25602
10133	GGAGUCU G GAACGUG	7227	CACGGUC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AGACCUCC	25603
10134	GAGGUCU G AACCGUG	7228	ACACGGU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CAGACCU	25604
10145	CGUGUUU G GAUAGAG	7229	CCUCUAC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AACACGG	25605
10146	CGUGUUG G AUAGAGA	7230	UCCUCUAC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CAAACACG	25606
10150	UUGGAUA G AGGAGAU	7231	AUCUCUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UAUCCAA	25607
10152	UGGAUAGA G GAGAUGA	7232	UCAUUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCUAUCCA	25608
10153	GGAUAGAG G AGAAUGAA	7233	UUAUUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCUAUCC	25609
10155	AUAGAGA G AAUGAUG	7234	CAUACAU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCCUUAU	25610
10159	AGGAGAU G AAUGAUG	7235	CAUCCAU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AUUCUCCU	25611
10163	GAUGAAU G GAUGAAG	7236	CUUCCAU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AUUCAUUC	25612
10164	AAUGAUG G AUGGAAGA	7237	UCUCCAU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CAUUAU	25613
10167	GAAUGAU G GAAGACAA	7238	UUGUCUUC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG AUCCAUUC	25614
10168	AAUGAUG G AGACAAA	7239	UUUGUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CAUCCAU	25615
10171	GGAUGAA G ACAAAACC	7240	GGUUUGU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG UCCCAUCC	25616
10185	ACCCAGU G GAGAAUG	7241	CAUUCUC GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG ACUGGGU	25617
10186	CCCCAGU G AGAAUGG	7242	CCAUUUCU GGA GCGUUAGGC UCCCUCAAGGA GCGUUAGGC UCCGGG CACUGGG	25618

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10188	CCAGUGGA G AAUUGGAG	7243	CUCCAUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCCACUGG	25619
10193	GGAGAAU G GAGUGACG	7244	CGUCACUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUUUCUC	25620
10194	GAGAAUG G AGUGACGU	7245	ACGUCACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CAUUCUC	25621
10198	AAUGGAGU G ACU'CCCA	7246	UGGACGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACUCCAUU	25622
10213	CAUAUCA G GAAACGGA	7247	UCGUUUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGAUAUG	25623
10214	AUAUCAG G AAACGAG	7248	CUCGUUU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUGAAUUA	25624
10220	AGAAAC G AGAGACA	7249	UGUCUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GUUUCU	25625
10222	GAACGA G AGACAUC	7250	GAUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCGUUUC	25626
10224	AAACGAG G GACAUCUG	7251	CAGAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCUCGUUU	25627
10225	AGCAGAG G ACAUCUGG	7252	CCGAUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUCUGUU	25628
10232	GGACAUCU G GUGUGGCA	7253	UGCACAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGAUGUC	25629
10237	UGUGUGU G GCAGCCUG	7254	CAGCUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACACAGA	25630
10245	GCAGCCU G AUUGGCAC	7255	GUGCCAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AGGUGCC	25631
10249	GCUGAUU G GCACAAGA	7256	UCUUGUC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAUAGGC	25632
10256	UGGCACA G AGCCGAG	7257	CUCCGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUGUGCA	25633
10262	AAGAGCC G AGCACGU	7258	ACUGGCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GGGUCUU	25634
10271	AGCCACGU G GCAGAAA	7259	UUUCGCC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACGUGCU	25635
10272	GCACGGU G GCAGAAA	7260	UUUCUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CACUGGC	25636
10276	CGUGGUG G AAACAUC	7261	UAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGCCACG	25637
10287	AACUCCA G GUGGCUAU	7262	AUAGCCAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGGAUUA	25638
10290	AUCCAGU G GCUAUCUA	7263	UUGAUGC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACCUGAU	25639
10307	CCAUGCA G AGCAUCA	7264	UGAUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UGACUUG	25640
10318	CAUCAUC G GAGAUGAG	7265	CUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG GAUGAUUG	25641
10319	AAUCAUG G AGAUGAGA	7266	UCUCAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CGAUGAU	25642
10321	UCAUCGA G AUGAGAG	7267	CUUCUACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCCGAUGA	25643
10324	UCGGAGAU G AGAUGAU	7268	AUACUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUCUCGA	25644
10326	GGAGAUG G AGUAUGU	7269	ACAUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCAUCUC	25645
10335	AGUAUGU G GAUACAU	7270	AUGUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACAUACU	25646
10336	AGUAUGU G AUUACAUG	7271	CAUGUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CACAUCU	25647
10344	GAUACAU G AGU'ACU	7272	AGUGAACU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUGUAUC	25648
10356	UCACUAA G AGAUAUGA	7273	UCAUAUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUAUGUA	25649
10358	ACUAAAG G AUAUGAAG	7274	CUUCAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCUUAGU	25650
10363	AGAGAUU G AGACACA	7275	UGUGUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AUUUCU	25651
10366	GAUAUGA G ACACACU	7276	AGUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UUCAUUC	25652
10377	ACAACUU G GUUGAGGA	7277	UCCUCAAC GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG AAAGUUGU	25653
10381	UUUGUU G AGGACACA	7278	UGUGUCCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG ACCAAAG	25654
10383	CUUGUGA G GACACAGU	7279	ACUGUUCU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UCAACCA	25655
10384	UGGUGAG G ACACAGUA	7280	UACUGUGU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG CUCAACA	25656
10398	GUACUGA G AUUUAUA	7281	UUAUAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UACAGUAC	25657
10420	UGUAAUA G ACAUAUA	7282	UAUAUAU GGA GCCGUUAGGC UCCCUUCAAGGA GCCGUUAGGC UCCGG UAUUAUA	25658

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10467	UAUUUAGU G GUGUUAGU	7283	ACUAAACAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUAAAUUA	25659
10488	AUAGUUA G AAAUUUU	7284	AAAUUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUAACUUAU	25660
10497	AAAUUUU G AGGAGAA	7285	UUUCUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AAAAUUUU	25661
10499	AAUUUUGA G GAGAAAGU	7286	ACUUUCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAAAUU	25662
10500	AUUUUGAG G AGAAAGUC	7287	GACUUUCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCAAAAUU	25663
10502	UUUGAGGA G AAAGUCAG	7288	UUGACUUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCAAA	25664
10510	GAAAGUCA G GCCGGGAA	7289	UUCCCGGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGACUUUC	25665
10514	GUCAGGCC G GGAAGUUC	7290	GAAAUUCC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GGCUGAC	25666
10515	UCAGGCCG G GAAGUUCC	7291	GGAACUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCUGA	25667
10516	CAGGCCGG G AGUUCCC	7292	GGGAACUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGGCCUG	25668
10531	CGCCACC G GAAGUUGA	7293	UCAAACUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUGGCCG	25669
10532	CGCCACC G AAGUUGAG	7294	CUCAAACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGUGGCCG	25670
10538	CGGAAGU G AGUAGACG	7295	CGUCUACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AACUCCG	25671
10543	GUUGAGUA G ACGGUGCU	7296	AGCACCGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UACUCAAC	25672
10546	GAGUAGAC G GUGUGGCC	7297	GGCAGCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUCUACUC	25673
10558	CUGCCUCC G ACUCARCC	7298	GGUUGAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGGCAG	25674
10570	CAACCCCA G GAGGACUG	7299	CAGUCCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGUUG	25675
10571	AACCCCA G AGGACUGG	7300	CCAGUCCU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUGGGUU	25676
10573	CCCCAGGA G GACUGGGU	7301	ACCCAGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGGG	25677
10727	CCCCAGGA G GACUGGGU	7301	ACCCAGUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUGGGG	25677
10574	CCCAGGAG G ACUGGGUG	7302	CACCCAGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUGGG	25678
10578	GGAGGACU G GGUGAACA	7303	UGUUCACC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG AGUCCUCC	25679
10579	GAGGACUG G GUGAACAA	7304	UUGUUCAC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CAGUCCUC	25680
10582	GACUGGGU G AACAAAGC	7305	GCUUUGUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACCAGUC	25681
10594	AAAGCCGC G AAGUGAUC	7306	GAUCACUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGCUUU	25682
10599	CGCGAAGU G AUCCAUGU	7307	ACAUGGAU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG ACUUCGCG	25683
10617	AGCCCUCA G AACCGUCU	7308	AGACGGUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGAGGGCU	25684
10627	ACCGUCUC G GAAGGAGG	7309	CCUCCUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GAGACGGU	25685
10628	CCGUCUC G AAGGAGGA	7310	UCCUCCUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGAGACGG	25686
10631	UCUCGGAA G GAGGACCC	7311	GGGUCCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UUCGAGA	25687
10632	CUCCGAAG G AGGACCCC	7312	GGGUCCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUUCCGAG	25688
10634	CGGAAGGA G GACCCAC	7313	GUGGGUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCUCCG	25689
10635	GGAAGGAG G ACCCACCA	7314	UGUGGGUU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CUCCUCC	25690
10670	CAUUGUCA G ACCAGGCU	7315	AGCGUGGU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGACAUUG	25691
10681	CACGUAC G GCGUGUA	7316	UAGCAGC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GUAGCGUG	25692
10696	UACUCUC G GAGAGUGC	7317	GCACUCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGAGUA	25693
10697	ACUCUGCG G AGAGUGCA	7318	UGCACUUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG CGCAGAGU	25694
10699	UCUGUGGC G AGUGCAGU	7319	ACUGACU GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UCCGAGA	25695
10712	CAGUCUC G AUAGUGCC	7320	GGCACUUA GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG GCAGACUG	25696
10724	GUGCCCA G GAGGACUG	7321	CAGUCCUC GGA GCCGUUAGGC UCCUUCAAGGA GCCGUUAGGC UCCGGG UGGGGCAC	25697

Table VII

10725	UGCCCCAG G AGGACUGG	7322	CCAGUCCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGGGGCA	25698
10728	CCAGGAG G ACUGGGUU	7323	AACCCAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCCUGGG	25699
10732	GGAGGACU G GUUUAACA	7324	UUGUAACC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUCCUCC	25700
10733	GAGGACUG G GUUUAACA	7325	UUGUUAAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGUCCUC	25701
10743	UUAACAAA G GCAAAACA	7326	UGGUUUGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUGUUAA	25702
10763	CCCCACGC G GCCUAGC	7327	GCUAGGGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGUGGG	25703
10775	CUAGCCCC G GUUAUGGU	7328	ACCAUUAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGGCUUAG	25704
10781	CCGGUAAU G GUGUUUAC	7329	GUUAACAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUUACCG	25705
10792	GUUAACCA G GCGAAAG	7330	CUUUCGCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGGUUAA	25706
10793	UUAACCCAG G GCGAAAGG	7331	CCUUUCCG GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGGUUAA	25707
10796	ACCAGGGC G AAAGGACU	7332	AGUCCUUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCCUUGGU	25708
10800	GGCGGAAA G GACUAGAG	7333	CUCUAGUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCGCC	25709
10801	GGCGAAG G ACUAGAGG	7334	CTUCUAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUUCCGCC	25710
10806	AAGGACUA G AGGUUAGA	7335	UCUAACCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGUCCUU	25711
10808	GGACUAGA G GUUAGAGG	7336	CCUCUAAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUAGUCC	25712
10813	AGAGGUUA G AGGAGACC	7337	GGUCUCCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAAACCUU	25713
10815	AGGUUAGA G GAGACCCC	7338	GGGGUCCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUUAACCU	25714
10816	GUUAGAG G AGACCCCG	7339	CGGGGUCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUCUAACC	25715
10818	UUAAGAGA G ACCCCGCG	7340	CGCGGGGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUCUAA	25716
10826	AGCCCGC G GUUUAAG	7341	CUUUAAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCGGGGUC	25717
10840	GAGGUCAC G GCCAGCC	7342	GGCUGGGC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGCACUU	25718
10850	CCGAGCCU G ACUGAAGC	7343	GCUCUAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGCUUGG	25719
10854	GCCUGACU G AAGCUGUA	7344	UACAGCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGUCAGGC	25720
10863	AAGCUGUA G GUCAGGGG	7345	CCCCUGAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UACAGCUU	25721
10868	GUAGGUA G GGAAGGA	7346	UCCUUCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UGACCUUAC	25722
10869	UAGGUCAG G GGAAGGAC	7347	GUCCUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUGACCUA	25723
10870	AGGUCAGG G GAAGGACU	7348	AGUCCUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUGACCU	25724
10871	GGUCAGGG G AAGGACUA	7349	UAGUCCUU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCUGACC	25725
10874	CAGGGGAA G GACUAGAG	7350	CUCUAGUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UUCCCCUG	25726
10875	AGGGGAAG G ACUAGAGG	7351	CCUCUAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUUCCCCU	25727
10880	AAGGACUA G AGGUUAGU	7352	ACUAACCU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGUCCUU	25728
10882	GGACUAGA G GUUAGUGG	7353	CCACUAAC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCUAGUCC	25729
10889	AGGUUAGU G GAGACCCC	7354	GGGUCUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACUAACCU	25730
10890	GUUAGUG G AGACCCCG	7355	CGGGGUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CACUAACC	25731
10892	UUAUGGA G ACCCCGUG	7356	CACGGGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCACUAA	25732
10931	AGCAUAU G ACACCCUG	7357	CCAGGUGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AAUAUGCU	25733
10938	UGACACCU G GGAUAGAC	7358	GUUUAUCC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AGGUGUCA	25734
10939	GAACACCU G GAUAGACU	7359	AGUUAUUC GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CAGGUGUC	25735
10940	ACACCCUG G AUAGACUA	7360	UAGUCUAU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CCAGGUGU	25736
10944	CUGGGAUA G ACUAGGAG	7361	CUCCUAGU GGA GCGUUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAUCCGAG	25737

Table VII

10949	AUAGACUA	G	GAGAUUUU	7362	AAGAUCUC	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UAGUCUAU	25738
10950	UAGACUAG	G	AGAUCUUC	7363	GAAGAUUU	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	CUAGUCUA	25739
10952	GACUAGGA	G	AUCUUCUG	7364	CAGAAAGU	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCUAGUC	25740
10981	AGCCACAC	G	GCACAGUG	7365	CACUGUGC	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGUGGCU	25741
10994	AGUGGCC	G	ACAAUGGU	7366	ACCAUUGU	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GUGUGGCU	25742
11000	CCGACAAU	G	GUGGCUGG	7367	CCAGCCAC	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GGCGCACU	25743
11003	ACAAUGGU	G	GCUGGUGG	7368	CCACCAGC	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	AUUGUCGG	25744
11007	UGGUGGCU	G	GUGGUGCG	7369	CGCACCAC	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCAUUGU	25745
11010	UGGUGGCU	G	GUGGUGGAG	7370	UCUCGCAC	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	ACCAUUGU	25746
11015	GGUGGUGC	G	AGAACACA	7371	UGUGUUCU	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	GCACCACC	25747
11017	UGGUGGGA	G	AACACAGG	7372	CCUGUGUU	GGA	GCCGUUAGGC	UCCCUUCAAGGA	GCCGUUAGGC	UCCGGG	UCCGACCA	25748

Input Sequence = AF196835. Cut Site = G/.

Arm Length = 8. Core Sequence = GGAGGAAACUCC CU UCAAGGACAUUGUCCGGG

AF196835 West Nile virus strain NY99-Flamingo382-99, complete genome

Table VIII

Table VIII: WNV minus strand Hammerhead Ribozyme and Target Sequence

Pos	Pos (+str )	Substrate	Seq ID	Ribozyme	Rz Seq ID
12	11018	UCCUGUGU U CUCGCACC	7373	GGUGCGAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACACAGGA	25749
13	11017	CCUGUGUU C UCGCACCA	7374	UGGUGCGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACACAGG	25750
15	11015	UGUGUUUC C GCACCACC	7375	GGUGGUGC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAACACA	25751
33	10997	GCCACCAU U GUCGGCGC	7376	GCGCCGAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUGGUGGC	25752
36	10994	ACCAUUGU C GGCACACU	7377	AGUGCGCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAUUGGU	25753
61	10969	UGGCUGGU U GUGCAGAG	7378	CUCUGCAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACCAGCCA	25754
78	10952	CAGAAGAU C UCCUAGUC	7379	GACUAGGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUCUUCUG	25755
80	10950	GAAGAUCU C CUAGUCUA	7380	UAGACUAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAUCUUC	25756
83	10947	GAUCUCU A GUCUAUCC	7381	UGAUGAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGAGUUC	25757
86	10944	CUCUAGU C UAUCCACG	7382	CUGGGUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACUAGGAG	25758
88	10942	CCUAGUCU A UCCCAGGU	7383	ACCUGGGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGACUAGG	25759
90	10940	UAGUCUAU C CCAGGUGU	7384	ACACCUGG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUAGACUA	25760
99	10931	CCAGGUGU C AAUAUGCU	7385	AGCAUAU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACACCUGG	25761
103	10927	GUGUCAAU A UGCUGUUU	7386	AAACAGCA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUUGACAC	25762
110	10920	UAUGCUGU U UGUUGUG	7387	CACAACAA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAGCAUA	25763
111	10919	AUGCUGUU U UGUUGUGG	7388	CCACAACA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACAGCAU	25764
112	10918	UGCUGUUU U GUUGUGGU	7389	ACCACAAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAACAGCA	25765
115	10915	UGUUUUGU U GUGGUGUU	7390	AACACCAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAAAACA	25766
123	10907	UGUGGUGU U UUGUGGCA	7391	UGCCACAA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACACCACA	25767
124	10906	GUGGUGUU U UGUGGCAC	7392	GUGCCACA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACACCAC	25768
125	10905	UGGUGUUU U GUGGCACG	7393	CGUGCCAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAACACCA	25769
138	10892	CACGGGGU C UCCACUAA	7394	UUAGUGGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACCCCGUG	25770
140	10890	CGGGGUCU C CACUAAAC	7395	GGUUAUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGACCCCG	25771
145	10885	UCUCCACU A ACCUCUAG	7396	CUAGAGGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGUGGAGA	25772
150	10880	ACUAACCU C UAGUCCUU	7397	AAGGACUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGUUAGU	25773
152	10878	UAACCUU A GUCCUCC	7398	GGAAGGAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAGGUUA	25774
155	10875	CCUCUAGU C CUUCCCU	7399	AGGGGAAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACUAGAGG	25775
158	10872	CUAGUCCU U CCCUGAC	7400	GUCAGGG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGACUAG	25776
159	10871	UAGUCCUU C CCCUGACC	7401	GGUCAGGG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGGACUA	25777
169	10861	CCUGACCU A CAGCUUCA	7402	UGAAGCUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGUCAGG	25778
175	10855	CUACAGCU U CAGUCAGG	7403	CCUGACUG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGCUGUAG	25779
176	10854	UACAGCUU C AGUCAGGC	7404	GCCUGACU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGCUGUA	25780
180	10850	GUUUCAGU C AGGCUGGG	7405	CCCAGCCU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACUGAAGC	25781
198	10832	CGUGCACU U UAAACCGC	7406	CGCGUUUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGUGCACG	25782
199	10831	GUGCACUU U AAACCGCG	7407	CGCGUUUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGUGCAC	25783
200	10830	UGCACUUU A AACC CGCG	7408	CCGCGUUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGUGCAC	25784
212	10818	CGCGGGGU C UCCUCUAA	7409	UUAGAGGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACCCCGCG	25785
214	10816	CGGGGUCU C CUCUAACC	7410	GGUUAAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGACCCCG	25786
217	10813	GGUCUCCU C UAACCUCU	7411	AGAGGUUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGAGACC	25787
219	10811	UCUCCUCU A ACCUCUAG	7412	CUAGAGGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAGGAGA	25788
224	10806	UCUAACCU C UAGUCCUU	7413	AAGGACUA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGUUAGA	25789
226	10804	UAACCUCU A GUCCUUUC	7414	GAAAGGAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGAGGUUA	25790
229	10801	CCUCUAGU C CUUUCGCC	7415	GGCGAAAG CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACUAGAGG	25791
232	10798	CUAGUCCU U UCGCCUG	7416	CAGGGCGA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGACUAG	25792
233	10797	UAGUCCUU U CGCCUGG	7417	CCAGGGCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGGACUA	25793
234	10796	AGUCCUUU C GCCCUGGU	7418	ACCAGGGC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAAGGACU	25794
243	10787	GCCUGGUU U AACACCAU	7419	AUGGUGUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACCAGGGC	25795
244	10786	CCCUGGUU A ACACCAUU	7420	AAUGGUGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACCAGGG	25796
252	10778	AACACCAU U ACCGGGCG	7421	GCCCCCGU CUGAUGAG <u>GCCGUUAGGC</u> CGAA AUGGUGUU	25797
253	10777	ACACCAUU A CCGGGGCU	7422	AGCCCCCG CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAUGGUGU	25798
262	10768	CCGGGGCU A GGGCCGCG	7423	CGCGGCC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGCCCCCG	25799
279	10751	UGGGGCGU U GGUUUGCC	7424	GGCAAAAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACCCCCCA	25800
283	10747	GCGUUGGU U UGCCUUUG	7425	CAAAGGCA CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACCAACGC	25801
284	10746	CGUUGGUU U GCCUUUGU	7426	ACAAAGGC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AACCAACG	25802
289	10741	GUUUGCCU U UGUUAACC	7427	GGUUAACA CUGAUGAG <u>GCCGUUAGGC</u> CGAA AGGCAAAC	25803
290	10740	UUUGCCUU U GUUAACCC	7428	GGGUUAAC CUGAUGAG <u>GCCGUUAGGC</u> CGAA AAGGCAAA	25804
293	10737	GCCUUUGU U AACCCAGU	7429	ACUGGGUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACAAGGC	25805

Table VIII

294	10736	CCUUGUU A ACCCAGUC	7430	GACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGG	25806
302	10728	AACCCAGU C CUCCUGGG	7431	CCCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGUU	25807
305	10725	CCAGUCCU C CUGGGGCA	7432	UGCCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	25808
316	10714	GGGGCACU A UCGCAGAC	7433	GUCUGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCCC	25809
318	10712	GGCACUAU C GCAGACUG	7434	CAGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCC	25810
331	10699	ACUGCACU C UCCGCAGA	7435	UCUGCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAGU	25811
333	10697	UGCACUCU C CGCAGAGU	7436	ACUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGCA	25812
342	10688	CGCAGAGU A GCACGCCG	7437	CGGCGUGC CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGCG	25813
352	10678	CACGCCGU A GCGUGGUC	7438	GACCAAGC CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGUG	25814
360	10670	AGCGUGGU C UGACAUUG	7439	CAAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCACGCU	25815
367	10663	UCUGACAU U GGGCUUUG	7440	CAAAGCCC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAGA	25816
373	10657	AUUGGGCU U UGAAGUUA	7441	UAACUUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCAAU	25817
374	10656	UUGGGCTU U GAAGUUAC	7442	GUAACUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCAA	25818
380	10650	UUUGAAGU U ACAACAUG	7443	CAUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCAAA	25819
381	10649	UGAAGUU A CAACAUGU	7444	ACAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AACUUCAA	25820
395	10635	UGUGGGGU C CUCCUUC	7445	GGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCCACA	25821
398	10632	GGGUGCCU C CUUCCGAG	7446	CUCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCC	25822
401	10629	GUCCUCCU C CCGAGACG	7447	CGUCUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAC	25823
402	10628	UCCUCCU C CGAGACGG	7448	CCGUCUCG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGGA	25824
412	10618	GAGACGGU U CUGAGGGC	7449	GCCUCACG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCUC	25825
413	10617	AGACGGUU C UGAGGGCU	7450	AGCCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCU	25826
422	10608	UGAGGGCU U ACAUGGAU	7451	AUCCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCCCUCA	25827
423	10607	GAGGGCUU A CAUGGAUC	7452	GAUCCAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGCCUCU	25828
431	10599	ACAUGGAU C ACUUCGCG	7453	CGCGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUGU	25829
435	10595	GGAUCACU U CGCGGCUU	7454	AAGCCGCG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUCC	25830
436	10594	GAUCACUU C GCGGCUUU	7455	AAAGCCGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUC	25831
443	10587	UCGCGGCU U UGUUACAC	7456	GGUGAACA CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGA	25832
444	10586	CGCGGCUU U GUUACACC	7457	GGGUGAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCCGCG	25833
447	10583	GGCUUUGU U CACCCAGU	7458	ACUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGGCC	25834
448	10582	GCUUUGUU C ACCCAGUC	7459	GACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAAGC	25835
456	10574	CACCCAGU C CUCCUGGG	7460	CCCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGGUG	25836
459	10571	CCAGUCCU C CUGGGGUU	7461	AACCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	25837
467	10563	CCUGGGGU U GAGUCGCA	7462	UGCGACUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAGG	25838
472	10558	GGUUGAGU C GCAGGCAG	7463	CUGCCUGC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAACC	25839
487	10543	AGCACCGU C UACUCAAC	7464	GUUGAGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCGUGCU	25840
489	10541	CACCGUCU A CUCAACUU	7465	AAGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGACGUG	25841
492	10538	CGUCUACU C AACUCCG	7466	CGGAAGUU CUGAUGAG	GCCGUUAGGC	CGAA AGUAGACG	25842
497	10533	ACUCAACU U CCGGUGGC	7467	GCCACCG CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAGU	25843
498	10532	CUCAACUU C CGUGGCG	7468	CGCCACCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGAG	25844
513	10517	CGGGAACU U CCGGCCU	7469	AGGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCCCG	25845
514	10516	GGGAACUU C CCGGCCUG	7470	CAGGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCCCC	25846
526	10504	GCCUGACU U UCUCUCA	7471	UGAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGGC	25847
527	10503	CCUGACUU U CUCCUCA	7472	UUGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGG	25848
528	10502	CUGACUUU C UCCUCAA	7473	UUUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUACAG	25849
530	10500	GACUUUCU C CUCAAAU	7474	AUUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGUC	25850
533	10497	UUUCUCCU C AAAAUUU	7475	AAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAA	25851
539	10491	CUCAAAU U UUCUUAAC	7476	GUUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGAG	25852
540	10490	UCAAAAU U UCUAACU	7477	AGUUAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUGA	25853
541	10489	CAAAAUUU U CUUAACUA	7478	UAGUUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUUUG	25854
542	10488	AAAAUUUU C UUAACUAU	7479	AUAGUUA CUGAUGAG	GCCGUUAGGC	CGAA AAAUUUUU	25855
544	10486	AAUUUUCU U AACUAUUU	7480	AAAUAGUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAU	25856
545	10485	AUUUUUCU A ACUAUUUA	7481	UAAUAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAU	25857
549	10481	UCUUAACU A UUUACACU	7482	AGUGUAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUUAAGA	25858
551	10479	UUAACUAU U UACACUAA	7483	UUAGUGUA CUGAUGAG	GCCGUUAGGC	CGAA AUAGUUA	25859
552	10478	UAACUAUU U ACACUAA	7484	GUUAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAGUUA	25860
553	10477	AACUAUUU A CACUAACA	7485	UGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAUAGUUU	25861
558	10472	UUUACACU A ACACCACU	7486	AGUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUAAA	25862
567	10463	ACACCACU A AAUACUAC	7487	GUAGUAUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGGUGU	25863
571	10459	CACUAAAU A CUACUUA	7488	UAUAGUAG CUGAUGAG	GCCGUUAGGC	CGAA AUUUAGUG	25864
574	10456	UAAUACU A CUUAAAA	7489	UUUUUAG CUGAUGAG	GCCGUUAGGC	CGAA AGUAUUUA	25865
577	10453	AUACUACU A UAAAACUA	7490	UAGUUUUA CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUUA	25866
579	10451	ACUACUAU A AAACUACA	7491	UGUAGUUU CUGAUGAG	GCCGUUAGGC	CGAA AUAGUAGU	25867

Table VIII

585	10445	AUAAAACU A CACUUUA	7492	UAAAAGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUUUUAU	25868
590	10440	ACUACACU U UUAUGCAU	7493	AUGCAUAA CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUAGU	25869
591	10439	CUACACUU U UAUGCAUA	7494	UAUGCAUA CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGUAG	25870
592	10438	UACACUUU U AUGCAUAC	7495	GUAUGCAU CUGAUGAG	GCCGUUAGGC	CGAA	AAAGUGUA	25871
593	10437	ACACUUUU A UGCAUACU	7496	AGUAUGCA CUGAUGAG	GCCGUUAGGC	CGAA	AAAAGUGU	25872
599	10431	UUAUGCAU A CUUAUAUU	7497	AAUAUAAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGCAUAA	25873
602	10428	UGCAUACU U AUAUUGUC	7498	GACAAUAU CUGAUGAG	GCCGUUAGGC	CGAA	AGUAUGCA	25874
603	10427	GCAUACUU A UAUUGUCU	7499	AGACAAUA CUGAUGAG	GCCGUUAGGC	CGAA	AAGUAUGC	25875
605	10425	AUACUUUA A UUGUCUAU	7500	AUAGACAA CUGAUGAG	GCCGUUAGGC	CGAA	AUAAGUAU	25876
607	10423	ACUUUAUU U GUCUAUUU	7501	AAAUAGAC CUGAUGAG	GCCGUUAGGC	CGAA	AUAUAAGU	25877
610	10420	UAUAUUGU C UAUUUACA	7502	UGUAAUAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAAUAUA	25878
612	10418	UAUUGUCU A UUAACAAU	7503	AUUGUAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGACAAUA	25879
614	10416	UUGUCUAU U UACAAUUG	7504	CAAUUGUA CUGAUGAG	GCCGUUAGGC	CGAA	AUAGACAA	25880
615	10415	UGUCUAUU U ACAAUGA	7505	UCAAUUGU CUGAUGAG	GCCGUUAGGC	CGAA	AAUAGACA	25881
616	10414	GUCUAUUU A CAAUUGAU	7506	AUCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAUAGAC	25882
621	10409	UUUACAAU U GAUUAUUU	7507	AUUUAUUC CUGAUGAG	GCCGUUAGGC	CGAA	AUUGUAAA	25883
625	10405	CAAUUGAU U AAAUAUCU	7508	AGAUUUUU CUGAUGAG	GCCGUUAGGC	CGAA	AUCAAUUG	25884
626	10404	AAUUGAUU A AAUAUCUA	7509	UAGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA	AAUCAAUU	25885
630	10400	GAUUAUUU A UCUACAGU	7510	ACUGUAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUUUAAUC	25886
632	10398	UUAAUAUU C UACAGUAC	7511	GUACUGUA CUGAUGAG	GCCGUUAGGC	CGAA	AUAUUUAA	25887
634	10396	AAUAUUCU A CAGUACUG	7512	CAGUACUG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUUUUU	25888
639	10391	UCUACAGU A CUGUGUCC	7513	GGACACAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUGUAGA	25889
646	10384	UACUGUGU C CUCACCA	7514	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACACAGUA	25890
649	10381	UGUGUCCU C AACCAAAG	7515	CUUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA	AGGACACA	25891
659	10371	ACCAAAGU U GUGUCUUC	7516	GAAGACAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGGUU	25892
664	10366	AGUUGUGU C UUCAUAUC	7517	GAUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACACAACU	25893
666	10364	UUGUGUCU U CAUAUCUC	7518	GAGAUAUG CUGAUGAG	GCCGUUAGGC	CGAA	AGACACAA	25894
667	10363	UGUGUCUU C AUAUCUCU	7519	AGAGUAUU CUGAUGAG	GCCGUUAGGC	CGAA	AAGACACA	25895
670	10360	GUCUUCAU A UCUCUUUA	7520	UAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGAAGAC	25896
672	10358	CUUCAUAU C UCUUUAGU	7521	ACUAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUAUGAAG	25897
674	10356	UCAUAUCU C UUUAGUGA	7522	UCACUAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGAUAUGA	25898
676	10354	AUAUCUCU U UAGUGAAC	7523	GUUCACUA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUAUU	25899
677	10353	UAUCUCUU U AGUGAACU	7524	AGUUCACU CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGUAU	25900
678	10352	AUCUCUUU A GUGAACUC	7525	GAGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGAU	25901
686	10344	AGUGAACU C AUGUAAUC	7526	GAUUAUAU CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCACU	25902
691	10339	ACUCAUGU A AUCCACAU	7527	AUGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAUGAGU	25903
694	10336	CAUGUAAU C CACAUACU	7528	AGUAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AUUACAUG	25904
700	10330	AUCCACAU A CUUCUCAU	7529	AUGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAU	25905
703	10327	CACAUACU U CUCAUCUC	7530	GAGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUAUGUG	25906
704	10326	ACAUAUCU C UCAUCUCC	7531	GGAGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	AAGUAUGU	25907
706	10324	AUACUUCU C AUCUCCGA	7532	UCGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGUAU	25908
709	10321	CUUCUCAU C UCCGAUGA	7533	UCAUCGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAAG	25909
711	10319	UCUCAUCU C CGAUGAUU	7534	AAUCAUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGAGA	25910
719	10311	CCGAUGAU U GCUCUGAC	7535	GUCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUCGG	25911
723	10307	UGAUUGCU C UGACUUGG	7536	CCAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA	AGCAAUCA	25912
729	10301	CUCUGACU U GGUUGAUA	7537	UAUCAACC CUGAUGAG	GCCGUUAGGC	CGAA	AGUCAGAG	25913
733	10297	GACUUGGU U GAUAGCCA	7538	UGGCUAUC CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAGUC	25914
737	10293	UGGUUGAU A GCCACCUG	7539	CAGGUGGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCAACCA	25915
751	10279	CUGGAUGU U UUCUGCCC	7540	GGGCAGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCCAG	25916
752	10278	UGGAUGUU U UCUGCCCA	7541	UGGGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AACAUCCA	25917
753	10277	GGAUGUUU U UGCCCAC	7542	GUGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA	AAACAUC	25918
754	10276	GAUGUUUU C UGCCACG	7543	CGUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA	AAAACAUC	25919
768	10262	ACGUGGCU C GGGCUCUU	7544	AAGAGCCC CUGAUGAG	GCCGUUAGGC	CGAA	AGCCACGU	25920
774	10256	CUCGGGCU C UUGUGCCA	7545	UGGCACAA CUGAUGAG	GCCGUUAGGC	CGAA	AGCCCGAG	25921
776	10254	CGGGUCUU U GUGCCAAU	7546	AUUGGCAC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCCCG	25922
785	10245	GUGCCAAU C AGGCUGCC	7547	GGCAGCCU CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGCAC	25923
805	10225	CCAGAUGU C CUCUCGUU	7548	AACGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCUGG	25924
808	10222	GAUGUCCU C UCGUUUUC	7549	GAAACGAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGACAUC	25925
810	10220	UGUCCUCU C GUUUUCCU	7550	AGGAAAC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGACA	25926
813	10217	CCUCUCGU U UCCUGAA	7551	UUCAGGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACGAGAGG	25927
814	10216	CUCUCGUU U UCCUGAAU	7552	AUUCAGGA CUGAUGAG	GCCGUUAGGC	CGAA	AACGAGAG	25928
815	10215	UCUCGUUU U CCUGAAUA	7553	UAUUCAGG CUGAUGAG	GCCGUUAGGC	CGAA	AAACGAGA	25929

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816	10214	CUCGUUUU C CUGAAUUAU	7554	AUAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGAG	25930
823	10207	UCCUGAAU A UGGGACGU	7555	ACGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAGGA	25931
832	10198	UGGGACGU C ACUCCAUU	7556	AAUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCCA	25932
836	10194	ACGUACAU C CAUUUCUC	7557	GAGAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGACGU	25933
840	10190	CACUCCAU U UCUCACAU	7558	AGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUG	25934
841	10189	ACUCCAUU U CUCCACUG	7559	CAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAGU	25935
842	10188	CUCCAUUU C UCCACUGG	7560	CCAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGAG	25936
844	10186	CCAUUUCU C CACUGGGG	7561	CCCCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAUUG	25937
854	10176	ACUGGGGU U UUGUCUUC	7562	GAAGACAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAGU	25938
855	10175	CUGGGGUU U UGUCUUC	7563	GGAAGACA CUGAUGAG	GCCGUUAGGC	CGAA AACCCACG	25939
856	10174	UGGGGUUU U GUCUCCA	7564	UGGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA AAACCCCA	25940
859	10171	GGUUUGU C UUCAUCC	7565	GGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAAACC	25941
861	10169	UUUUGUCU U CCAUCCAU	7566	AUGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGACAAA	25942
862	10168	UUUGUCU C CAUCCAUU	7567	AAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGACAAA	25943
866	10164	UCUCCAU C CAUUCAUU	7568	AAUGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	25944
870	10160	CCAUCCAU U CAUUCUCC	7569	GGAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGG	25945
871	10159	CAUCCAU C AUUCUCU	7570	AGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAUG	25946
874	10156	CCAUUCAU U CUCCCUA	7571	UAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUGG	25947
875	10155	CAUUCAUU C UCCUCUAU	7572	AUAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGAAUG	25948
877	10153	UUCAUUCU C CUCUAUCC	7573	GGAUAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGAA	25949
880	10150	AUUCUCCU C UAUCCAAA	7574	UUUGGAUA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAU	25950
882	10148	UCUCCUCU A UCCAAACA	7575	UGUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGA	25951
884	10146	UCCUCUAU C CAAACACG	7576	CGUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUAGAGGA	25952
895	10135	AACACGGU U CCAGACCU	7577	AGGUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCGUGU	25953
896	10134	ACACGGU C CAGACCUC	7578	GAGGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACCGUGU	25954
904	10126	CCAGACCU C CAACUUGU	7579	ACAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCUGG	25955
913	10117	CAACUUGU C CUCUGUUG	7580	CAACAGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUUG	25956
916	10114	CAUGUCCU C UGUUGUCA	7581	UGACAACA CUGAUGAG	GCCGUUAGGC	CGAA AGGACAUG	25957
920	10110	UCCUCUGU U GUCAUCCA	7582	UGGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGGA	25958
923	10107	UCUGUUGU C AUCCACUC	7583	GAGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAGA	25959
926	10104	GUUGUCAU C CACUCUCC	7584	GGAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGACAAC	25960
931	10099	CAUCCACU C UCCUCCUG	7585	CAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAUG	25961
933	10097	UCCACUCU C CUCCUGCA	7586	UGCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	25962
936	10094	ACUCUCCU C CUGCAUGG	7587	CCAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAGU	25963
959	10071	CACGUGGU U CUUCCGUU	7588	ACCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGUG	25964
960	10070	ACGUGGUU C UUCCGGUA	7589	UACCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACACAGU	25965
962	10068	GUGGUUCU U CCGGUAGG	7590	CCUACCGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACAC	25966
963	10067	UGGUUCUU C CGGUAGGG	7591	CCCUACCG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACCA	25967
968	10062	CUUCCGGU A GGGACCCA	7592	UGGGUCCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAAG	25968
979	10051	GACCCAAU U CACAGGGA	7593	UCCCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGUC	25969
980	10050	ACCCAAU C ACAGGGAC	7594	GUCCCUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGGU	25970
1006	10024	AAUGGCGU U GGCCAUGA	7595	UCAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAUU	25971
1024	10006	CCGACGGU C UCUUCUGU	7596	ACAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCUGCGG	25972
1026	10004	GCAGGUCU C UUCUGUGG	7597	CCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGACGUCG	25973
1028	10002	AGGUCUCU U CUGUGGAA	7598	UUCCACAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGACCU	25974
1029	10001	GGUCUCUU C UGUGGAAG	7599	CUUCCACA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGACC	25975
1039	9991	GUGGAAGU A CAGAAGCA	7600	UGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCCAC	25976
1055	9975	AGCCACAU C UGGGCAUA	7601	UAUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGCU	25977
1063	9967	CUGGGCAU A AGACUUA	7602	CUAAGUCU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCAG	25978
1069	9961	AUAAGACU U AGCCAGAC	7603	GUCUGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGUCUUAU	25979
1070	9960	UAAGACUU A GCCAGACA	7604	UGUCUGGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCUUA	25980
1087	9943	AGCAGUGU C GCGGACGU	7605	ACGUCCGC CUGAUGAG	GCCGUUAGGC	CGAA ACACUGCU	25981
1096	9934	GCGGACGU U CCAUCCGG	7606	CCGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUCCGC	25982
1097	9933	CGGACGUU C CAUCCGGC	7607	GCCGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCG	25983
1101	9929	CGUCCAU C CGGCCCU	7608	AGGGGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACG	25984
1116	9914	CUGGAGAU A UGCGAGCU	7609	AGCUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAG	25985
1125	9905	UGCGAGCU C UGCCUACC	7610	GGUAGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCGCA	25986
1131	9899	CUUGCCU A CCAAUUCA	7611	UGAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAGAG	25987
1137	9893	CUACCAU U CAUCCUGU	7612	ACAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUAG	25988
1138	9892	UACCAAU C AUCCUGUC	7613	GACAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGGUA	25989
1141	9889	CAAUUCAU C CUGUCCUC	7614	GAGGACAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUUG	25990
1146	9884	CAUCCUGU C CUCGGCAU	7615	AUGCCGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUG	25991

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1149	9881	CCUGUCCU C GGCAUGGA	7616	UCCAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AGGACAGG	25992
1169	9861	ACCAGUGU U CUUCCAUC	7617	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACACUGGU	25993
1170	9860	CCAGUGUU C UUCAUCU	7618	AGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACACUGG	25994
1172	9858	AGUGUUU U CCAUCUU	7619	AAAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACACU	25995
1173	9857	GUGUUUU C CAUCUUC	7620	GAAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACAC	25996
1177	9853	UCUCCAUC C UUUCAUGA	7621	UCAUGAAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	25997
1179	9851	UUCCAUCU U UCAUGAUC	7622	GAUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAA	25998
1180	9850	UCCAUCUU U CAUGAUC	7623	UGAUAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGGA	25999
1181	9849	CCAUCUU C AUGAUCAA	7624	UUGAUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGG	26000
1187	9843	UUAUGAU C AAUUCAGU	7625	ACUGAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGAA	26001
1191	9839	UGAUCAAU U CAGUGAAA	7626	UUUCACUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAUC	26002
1192	9838	GAUCAAU C AGUGAAAU	7627	AUUUCACU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAUC	26003
1204	9826	GAAUUGU U UGAGCAA	7628	UUUGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUUUC	26004
1205	9825	AAAUGGU U GAGCAAAA	7629	UUUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AACCAUUU	26005
1231	9799	CUGCCAAU C AUACCAUC	7630	GAUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCAG	26006
1234	9796	CCAAUUA A CCAUCCAG	7631	CUGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGG	26007
1239	9791	CAUACCAU C CAGUUGAC	7632	GUCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUUG	26008
1244	9786	CAUCCAGU U GACGGUU	7633	AAACCGUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAUG	26009
1251	9779	UUGACGGU U UCCACUCU	7634	AGAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCAA	26010
1252	9778	UGACGGUU U CCACUCUU	7635	AAGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA AACCGUCA	26011
1253	9777	GACGGUU C CACUCUUG	7636	CAAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAACCGUC	26012
1258	9772	UUUCCACU C UUGGAUGU	7637	ACAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAA	26013
1260	9770	UCCACUCU U GGAUGUCU	7638	AGACAUCC CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	26014
1267	9763	UUGGAUGU C UUUGCGAA	7639	UUCGCAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCCAA	26015
1269	9761	GGAUGUCU U UGCGAAC	7640	GGUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGACAUC	26016
1270	9760	GGAUGUCU U GCGAACCU	7641	AGGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGACAUC	26017
1279	9751	GCGAACCU U UGACAUAG	7642	CUAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGUUCGC	26018
1280	9750	CGAACCUU U GACAUAGC	7643	GUUAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGUUCG	26019
1286	9744	UUUGACAU A GCAUUGAG	7644	CUCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAAA	26020
1291	9739	CAUAGCAU U GAGGAAGU	7645	ACUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAUG	26021
1321	9709	AAAGCGAU C GUCCAGGG	7646	CCUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AUCCGUU	26022
1324	9706	GCGAUCGU C CAGGGGCU	7647	AGCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA ACGAUCGC	26023
1333	9697	CAGGGGCU U UACCACAC	7648	GUGUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCUG	26024
1334	9696	AGGGGCUU U ACCACACA	7649	UGUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCCU	26025
1335	9695	GGGGCUU A CCACACAG	7650	CUGUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGCCCC	26026
1345	9685	CACACAGU C AUCUCCAC	7651	GUGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGUGUG	26027
1348	9682	ACAGUCAU C UCCACUGA	7652	UCAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGACUGU	26028
1350	9680	AGUCAUCU C CACUGACA	7653	UGUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGACU	26029
1374	9656	GCUGAGU C UUUCUCC	7654	GGAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGCC	26030
1376	9654	CUGAGUCU U UCUCUCC	7655	GGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGACUCAG	26031
1377	9653	UGAGUCUU U CUUCCCA	7656	UGGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGACUCA	26032
1378	9652	GAGUCUU C UUCCCAU	7657	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGACUC	26033
1380	9650	GUCUUUCU U CCCAUUC	7658	GAAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAC	26034
1381	9649	UCUUUCU C CCCAUUC	7659	AGAAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGA	26035
1387	9643	UUCCCAU U CUCAAACA	7660	UGUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26036
1388	9642	UCCCAU C UCAAACAG	7661	CUGUUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGGGA	26037
1390	9640	CCCAUUCU C AAACAGCC	7662	GGCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGG	26038
1403	9627	AGCCAGGU C CUGACUU	7663	AAAGUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGCU	26039
1410	9620	UCCUGACU U UGGGUCCU	7664	AGGACCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGGA	26040
1411	9619	CCUGACUU U GGGUCCU	7665	AAGGACCC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGG	26041
1416	9614	CUUUGGU C CUUCCCU	7666	AGGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAG	26042
1419	9611	UGGGUCCU U UCCUUUU	7667	AAAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGACCCA	26043
1420	9610	GGGUCCU U CCUUUUG	7668	CAAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCC	26044
1421	9609	GGUCCUU C CCUUUUG	7669	ACAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGGACC	26045
1425	9605	CUUUCUU U UUGUGAGU	7670	ACUCACAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAAG	26046
1426	9604	UUUCCCU U UGUGAGUU	7671	AAUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAAA	26047
1427	9603	UUCCUUU U GUGAGUU	7672	AAACUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGGGAA	26048
1434	9596	UUGUGAGU U UCUCACA	7673	UGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUCACAA	26049
1435	9595	UGUGAGUU U CUCCACAU	7674	AUGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AACUCACA	26050
1436	9594	GUGAGUU C UCCACAUC	7675	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAACUCAC	26051
1438	9592	GAGUUUCU C CACAUCAU	7676	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAAACUC	26052
1444	9586	CUCCACAU C AUCUGGGC	7677	GCCCAGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAG	26053

Table VIII

1447	9583	CACAUCAU C UGGGCCAA	7678	UUGGCCCA CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUGUG	26054
1457	9573	GGGCCAAU C ACUCCUUC	7679	GAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGCC	26055
1461	9569	CAAUCACU C CUUCCCU	7680	AGGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGAUUG	26056
1464	9566	UCACUCCU U CCCUUC	7681	GGAAGGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGUGA	26057
1465	9565	CACUCCU C CCCUCCA	7682	UGGAAGGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAGUG	26058
1470	9560	CUUCCCU U CCAUCAU	7683	GAUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGGGAAG	26059
1471	9559	UUCCCUU C CAUCAUC	7684	GGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGGGAA	26060
1475	9555	CCUCCAU C AUCCUCAC	7685	GUGAGGAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAAGG	26061
1478	9552	UCCAUCAU C CUCACCAG	7686	CUGGUGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUGGA	26062
1481	9549	AUCAUCCU C ACCAGCUG	7687	CAGCUGGU CUGAUGAG	GCCGUUAGGC	CGAA	AGGAUGAU	26063
1501	9529	GGCCAGGU U GGUGAAAG	7688	CUUUCACC CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGGCC	26064
1513	9517	GAAAGUGU U UAGGCGU	7689	ACGCCCUA CUGAUGAG	GCCGUUAGGC	CGAA	ACACUUUC	26065
1514	9516	AAAGUGU U AGGCGUA	7690	UACGCCCU CUGAUGAG	GCCGUUAGGC	CGAA	AACACUUU	26066
1515	9515	AAGUGU A GGGCGUAG	7691	CUACGCC CUGAUGAG	GCCGUUAGGC	CGAA	AAACACUU	26067
1522	9508	UAGGGCGU A GGUGACAA	7692	UUGUCACC CUGAUGAG	GCCGUUAGGC	CGAA	ACGCCCUA	26068
1533	9497	UGACAACU U GUCCACUC	7693	GAGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGUCA	26069
1536	9494	CAACUUGU C CACUCCCC	7694	GGGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGUUG	26070
1541	9489	UGUCCACU C CCCUCUG	7695	CAGAGGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGGACA	26071
1547	9483	CUCCCCU C UGAUCUUC	7696	GAAGAUA CUGAUGAG	GCCGUUAGGC	CGAA	AGGGGGAG	26072
1552	9478	CCUCUGAU C UUCUCUGG	7697	CCAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAGAGG	26073
1554	9476	UCUGAUCU U CUCUGGAG	7698	CUCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCAGA	26074
1555	9475	CUGAUCU C UCUGGAGA	7699	UCUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AAGAUCAG	26075
1557	9473	GAUCUUCU C UGGAGAU	7700	UAUCUCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGAU	26076
1565	9465	CUGGAGAU A ACAUCCAU	7701	AUGGAUGU CUGAUGAG	GCCGUUAGGC	CGAA	AUCUCCAG	26077
1570	9460	GAUAACAU C CAUGACGG	7702	CCGUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUUAUC	26078
1580	9450	AUGACGGU U CUUCCAUC	7703	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAGUCAU	26079
1581	9449	UGACGGU C UUCAUCA	7704	UGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AACGUGCA	26080
1583	9447	ACGGUUCU U CCAUCAGC	7705	GCUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAACCGU	26081
1584	9446	CGUUCU C CAUCAGCA	7706	UGCUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAACCG	26082
1588	9442	UCUCCAU C AGCAGCCG	7707	CGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAAGA	26083
1604	9426	GGGCGCAU C ACUUCAC	7708	GUGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA	AUGCGCCC	26084
1608	9422	GCAUCACU U UCACAACU	7709	AGUUGUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGUGAUGC	26085
1609	9421	CAUCACU U CACAACU	7710	AAGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGAUG	26086
1610	9420	AUCACUU C ACAACUU	7711	AAAGUUGU CUGAUGAG	GCCGUUAGGC	CGAA	AAAGUGAU	26087
1617	9413	UCACAACU U UGUGACGA	7712	UCGUCACA CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGUGA	26088
1618	9412	CACAACU U GUGACGAU	7713	AUCGUCAC CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGUG	26089
1627	9403	GUGACGAU A GGUGAGCU	7714	AGCUCACC CUGAUGAG	GCCGUUAGGC	CGAA	AUCGUCAC	26090
1636	9394	GGUGAGCU C AAUGAUGG	7715	CCAUCAU CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCACC	26091
1665	9365	GCCGAUGU U CCCAUCA	7716	UGAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCGGC	26092
1666	9364	CCGAUGU C CCCAUCA	7717	UUGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AACAUCGG	26093
1672	9358	UUCCCCU C AAGCAGCU	7718	AGCUGCUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGGGAA	26094
1681	9349	AAGCAGCU C AAGCACC	7719	AGGUGCUU CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGCUU	26095
1690	9340	AGCACCU U AGCUUCAU	7720	AUGAAGCU CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGCUU	26096
1691	9339	AGCACCU A GCUUCAU	7721	AAUGAAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGCU	26097
1695	9335	CCUAGCU U CAUUUCC	7722	GGAAAAUG CUGAUGAG	GCCGUUAGGC	CGAA	AGCUAAGG	26098
1696	9334	CUUAGCU C AUUUCCA	7723	UGGAAAAU CUGAUGAG	GCCGUUAGGC	CGAA	AAGCUAAG	26099
1699	9331	AGCUUCAU U UUCAAGU	7724	ACUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUGAAGCU	26100
1700	9330	GCUUCAU U UCCAAGUC	7725	GACUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAUGAAGC	26101
1701	9329	CUUCAUU U CCAAGUCA	7726	UGACUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAUCAAG	26102
1702	9328	UUCAUUU C CAAGUCAG	7727	CUGACUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAAUGAA	26103
1708	9322	UCCAAGU C AGCUCUG	7728	CGAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGGAA	26104
1713	9317	AGUCAGCU C UCGUGAUG	7729	CAUCACGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGACU	26105
1715	9315	UCAGCUCU C GUGAUGCG	7730	CGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCUGA	26106
1729	9301	GCGGGUGU C CCAGCCAG	7731	CUGGCUGG CUGAUGAG	GCCGUUAGGC	CGAA	ACACCCGC	26107
1744	9286	AGCUGUGU C AUCAGCAU	7732	AUGCUGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACACAGCU	26108
1747	9283	UGUGUCAU C AGCAUAGA	7733	UCUAUGCU CUGAUGAG	GCCGUUAGGC	CGAA	AUGACACA	26109
1753	9277	AUCAGCAU A GAUCUUGC	7734	GCAAGAUC CUGAUGAG	GCCGUUAGGC	CGAA	AUGCUGAU	26110
1757	9273	GCAUAGAU C UUGCCCC	7735	GGGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCUAUGC	26111
1759	9271	AUAGAUU U GCCCCAG	7736	CUGGGGCG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCUAU	26112
1782	9248	UGCCAACU U CACGCAGG	7737	CCUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGGCA	26113
1783	9247	GCCAACU C ACGCAGGA	7738	UCCUGCGU CUGAUGAG	GCCGUUAGGC	CGAA	AAGUUGGC	26114
1795	9235	CAGGAUGU A ACCCAGUU	7739	AACUGGGU CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCUG	26115

Table VIII

1803	9227	AACCCAGU U UUUGGAGG	7740	CCUCCAAA CUGAUGAG	GCCGUUAGGC	CGAA	ACUGGGUU	26116
1804	9226	ACCAGUU U UUUGAGGC	7741	GCCUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	AACUGGGU	26117
1805	9225	CCCAGUUU U UGGAGGCC	7742	GGCCUCCA CUGAUGAG	GCCGUUAGGC	CGAA	AAACUGGG	26118
1806	9224	CCAGUUUU U GGAGGCC	7743	GGGCCUCC CUGAUGAG	GCCGUUAGGC	CGAA	AAACUGG	26119
1822	9208	CAAGCCCU C GACACCUC	7744	GAGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA	AGGGCUUG	26120
1830	9200	CGACACCU C CUCCUGAG	7745	CUCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGUCG	26121
1833	9197	CACCUCCU C CUGAGUUC	7746	GAAUCAG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGUG	26122
1840	9190	UCCUGAGU U CUUUCUUC	7747	GAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUCAGGA	26123
1841	9189	CCUGAGUU C UUUCUUC	7748	GGAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AACUCAGG	26124
1843	9187	UGAGUUUC U UCUCCAA	7749	UUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAACUCA	26125
1844	9186	GAGUUCUU U CUUCCAAG	7750	CUUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAACUC	26126
1845	9185	AGUUCUUU C UUCCAAGC	7751	GCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAACU	26127
1847	9183	UUCUUUCU U CCAAGCCA	7752	UGGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAAAGAA	26128
1848	9182	UCUUUCUU C CAAGCCAG	7753	CUGGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAAAGA	26129
1861	9169	CCAGUGGU C UUCAUUGA	7754	UCAAGGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACCACUGG	26130
1863	9167	AGUGGUCU U CAUUGAGA	7755	UCUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGACACU	26131
1864	9166	GUGGUCUU C AUUGAGAA	7756	UUCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA	AAGACCAC	26132
1867	9163	GUCUUCAU U GAGAAAAC	7757	GUUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA	AUGAAGAC	26133
1885	9145	CAGAGCCU C GAACUCCA	7758	UGGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA	AGGCUCUG	26134
1891	9139	CUCGAACU C CAGAAAGC	7759	GCUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCGAG	26135
1905	9125	AGCGAGCU C CGAGCCAC	7760	GUGGCUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCGCU	26136
1929	9101	AAAUGGCU C UGCUUCCC	7761	GGGAAGCA CUGAUGAG	GCCGUUAGGC	CGAA	AGCCAUTU	26137
1934	9096	GCUCUGCU U CCCUUGGC	7762	GCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGAGC	26138
1935	9095	CUCUGGU C CCUUGGCC	7763	GGCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAGAG	26139
1939	9091	GCUUCCCU U GGCCUUUC	7764	GAAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA	AGGGAAGC	26140
1945	9085	CUUGGCCU U UCCGAACU	7765	AGUUCGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCAAG	26141
1946	9084	UUGGCCUU U CCGAACUC	7766	GAGUUCGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGCCAA	26142
1947	9083	UGGCCUUU C CGAACUCU	7767	AGAGUUCG CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGCCA	26143
1954	9076	UCCGAACU C UCCGGGUU	7768	AACCCGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCGGA	26144
1956	9074	CGAACUCU C CGGGUUUU	7769	AAAACCCG CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUUCG	26145
1962	9068	CUCCGGGU U UUUUCUCU	7770	AGAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA	ACCCGGAG	26146
1963	9067	UCCGGGUU U UUUUCUCU	7771	GAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AACCCGGA	26147
1964	9066	CCGGGUUU U UUCUCUCU	7772	AGAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	AAACCCGG	26148
1965	9065	CGGGUUUU U UCUCUCUC	7773	GAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	AAAACCCG	26149
1966	9064	GGGUUUUU U UCUCUCUC	7774	AGAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	AAAAACCC	26150
1967	9063	GGUUUUUU C UCUCUCUU	7775	AAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	AAAAAAC	26151
1969	9061	UUUUUUUU C UCUCUUUC	7776	GAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAAAAA	26152
1971	9059	UUUUUCUU C UCUUUCCC	7777	GGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAAAA	26153
1973	9057	UUCUCUCU C UUUCCAU	7778	AUGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAGAA	26154
1975	9055	CUCUCUCU U UCCCAUCA	7779	UGAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAGAG	26155
1976	9054	UCUCUCUU U CCCAUCAU	7780	AUGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGAGA	26156
1977	9053	CUCUCUCU C CCAUCAUG	7781	CAUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGAG	26157
1982	9048	UUUCCCAU C AUGUUGUA	7782	UACAACAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGGAAA	26158
1987	9043	CAUCAUGU U GUAAAUGC	7783	GCAUUUAC CUGAUGAG	GCCGUUAGGC	CGAA	ACAUGAUG	26159
1990	9040	CAUGUUGU A AAUGCAAG	7784	CUUGCAUU CUGAUGAG	GCCGUUAGGC	CGAA	ACAACAUG	26160
2007	9023	UGUGACAU U CCCCCGC	7785	GCGGGGGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCACA	26161
2008	9022	GUGACAUU C CCCCCGA	7786	UGCGGGGG CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUCAC	26162
2026	9004	AUGUGCCU C GCGUCCU	7787	AGGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA	AGGCAUAC	26163
2032	8998	CUCGCGCU C CUCAUCCA	7788	UGGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCGAG	26164
2035	8995	GCGUCCU C AUCCACCA	7789	UGGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGCGC	26165
2038	8992	CUCUCAU C CACCAUCU	7790	AGAUGGUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGAGGAG	26166
2045	8985	UCCACCAU C UCCCAAAA	7791	UUUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUGGA	26167
2047	8983	CACCAUCU C CCAAAAU	7792	AAUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGGUG	26168
2055	8975	CCCAAAAU U UUGAUCU	7793	AGAUCCAA CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUGGG	26169
2056	8974	CCAAAUU U UGGAUCUU	7794	AAGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA	AAUUUUGG	26170
2057	8973	CAAAAUU U GGAUCUUC	7795	GAAGAUC CUGAUGAG	GCCGUUAGGC	CGAA	AAAUUUUG	26171
2062	8968	UUUUGGAU C UUCAACUG	7796	CAGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCCAAAA	26172
2064	8966	UUGGAUCU U CAACUGCU	7797	AGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCCAA	26173
2065	8965	UGGAUCUU C AACUGCUU	7798	AAGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCCAA	26174
2073	8957	CAACUGCU U CUCUGGCG	7799	CGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUUG	26175
2074	8956	AACUGCUU C UCUGGCGC	7800	GCGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAGUU	26176
2076	8954	CUGCUUCU C UGGCGCUC	7801	GAGCGCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGCAG	26177

Table VIII

2084	8946	CUGGCGCU C CUCCAUG	7802	CAAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCCAG	26178
2087	8943	GCGCUCU C CAUUGAUU	7803	AAUCA AUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCGC	26179
2091	8939	UCCUCCAU U GAUUCUGC	7804	GCAGAAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGGA	26180
2095	8935	CCAUGAU U CUGCUCU	7805	AAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUGG	26181
2096	8934	CAUGAUU C UGCUCUUC	7806	GAAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCAAUG	26182
2101	8929	AUUCUGCU C UUCAACA	7807	UGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAGAAU	26183
2103	8927	UCUGCUCU U CAAACAUG	7808	CAUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAGA	26184
2104	8926	CUGCUCU C AAACAUGG	7809	CCAUGUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAG	26185
2128	8902	AGCUGCAU U GCUUGUA	7810	UCAACAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAGCU	26186
2134	8896	AUUGCUGU U GACCUUUC	7811	GAAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCAAU	26187
2140	8890	GUUGACCU U UCUAUGA	7812	UCAUAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUCAAC	26188
2141	8889	UUGACCUU U CUUAUGAA	7813	UUAUAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUCAA	26189
2142	8888	UGACCUUU C UUAUGAAU	7814	AUUCAUA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGUCA	26190
2144	8886	ACCUUUCU U AUGAAUUC	7815	GAAUUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGU	26191
2145	8885	CCUUUCU A UGAAUUC	7816	GGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGG	26192
2151	8879	UUAUGAAU U CCUCUCGA	7817	UCGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUAA	26193
2152	8878	UAUGAAU C CUCUCGAG	7818	CUCGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUUCAUA	26194
2155	8875	GAAUUCU C UCGAGAGC	7819	GCUCUCGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAUUC	26195
2157	8873	AUUCUCU C GAGAGCAC	7820	GUGCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAAU	26196
2168	8862	GAGCAU U CUGGAGC	7821	CGUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUC	26197
2169	8861	AGCAU C UGGAGCU	7822	ACGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUCU	26198
2178	8852	UGGAGCU U UUCUCUG	7823	CAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCA	26199
2179	8851	GGAGCU U UUCUCUGG	7824	CCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCC	26200
2180	8850	GGAGCUU U UCUCUGGC	7825	GCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AACGUC	26201
2181	8849	GACGUUU U CUCUGGCC	7826	GGCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGUC	26202
2182	8848	ACGUUUU C UCUGGCA	7827	UGGCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGU	26203
2184	8846	GUUUUCU C UGGCCAA	7828	UUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAAC	26204
2209	8821	CAACAGU U GGUUGUCU	7829	AGACCAC CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUG	26205
2216	8814	UUGGUGU C UCAUGAG	7830	CUCAAUA CUGAUGAG	GCCGUUAGGC	CGAA ACCACCA	26206
2218	8812	GGUGGUCU C AUUGAGCA	7831	UGCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCACAC	26207
2221	8809	GGUCUUAU U GAGCACGU	7832	ACGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGACC	26208
2230	8800	GAGCACGU A CUUCACUC	7833	GAGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCUC	26209
2233	8797	CACGUACU U CACUCCU	7834	AAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AGUACGUG	26210
2234	8796	ACGUACU C ACUCCUUC	7835	GAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA AAGUACGU	26211
2238	8792	ACUACU C CUUCUGGC	7836	GCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAAGU	26212
2241	8789	UCACUCCU U CUGGCGU	7837	ACCGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGA	26213
2242	8788	CACUCCU C UGGCGGU	7838	AACCGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	26214
2250	8780	CUGGCGU U CAGGAGCU	7839	AGCUCUG CUGAUGAG	GCCGUUAGGC	CGAA ACCGCCAG	26215
2251	8779	UGGCGGU C AGGAGCU	7840	AAGCUCU CUGAUGAG	GCCGUUAGGC	CGAA AACGCCCA	26216
2259	8771	CAGGAGCU U UCGUGUC	7841	GGACACGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUG	26217
2260	8770	AGGAGCU U CGUGUCCA	7842	UGGACAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCUCU	26218
2261	8769	GGAGCUU C GUGUCCAC	7843	GUGGACAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUC	26219
2266	8764	UUUCGUGU C CACCUUCU	7844	AGAAGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACACGAAA	26220
2272	8758	GUCCACCU U CUCUUGA	7845	UCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGAC	26221
2273	8757	UCCACCU C UCUUGAA	7846	UUCAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGGA	26222
2275	8755	CACCUUCU C UUUGAACA	7847	UGUUCAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGUG	26223
2277	8753	CCUUCUCU U UGAACACU	7848	AGUGUUA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAGG	26224
2278	8752	CUUCUCU U GAACACUC	7849	GAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAAG	26225
2286	8744	UGAACACU C GUCUGGC	7850	GCAGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUA	26226
2306	8724	AAGGAGU A GUGUCAGU	7851	ACUGACAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCCU	26227
2311	8719	AGUAGUGU C AGUCAUGG	7852	CCAUGACU CUGAUGAG	GCCGUUAGGC	CGAA ACACUACU	26228
2315	8715	GUGUCAGU C AUGGCCAU	7853	AUGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGACAC	26229
2330	8700	AUGGUGU A ACAUUCGU	7854	ACGAAUGU CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAU	26230
2335	8695	GUAAACAU U CGUGAUGG	7855	CCAUCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGUACC	26231
2336	8694	GUAAACAU C GUGAUGGU	7856	ACCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGUAC	26232
2347	8683	GAUGGUGU C CCAUGGUU	7857	AACCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACACCAUC	26233
2355	8675	CCAUGGU U UUGAGAGG	7858	CCUCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGG	26234
2356	8674	CCAUGGU U UGAGAGGA	7859	UCCUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACCAUGG	26235
2357	8673	CAUGGUU U GAGAGGAG	7860	CUCCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAACCAUG	26236
2376	8654	UGACCAU C CAUUGACC	7861	GGUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCA	26237
2380	8650	CACUCCAU U GACCAGCG	7862	CGCUGGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUG	26238
2410	8620	UGUGGCU U CACAUCAU	7863	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGCCACA	26239

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2411	8619	GUGGGCUU C ACAUCAUA	7864	UAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGCCAC	26240
2416	8614	CUUCACAU C AUAACUGC	7865	GCAGUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAAG	26241
2419	8611	CACAUCAU A ACUGCCGU	7866	ACGGCAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGUG	26242
2431	8599	GCCGUGAU A GUUCCAGG	7867	CCUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AUCACGGC	26243
2434	8596	GUGAUGU U CCAGGUUC	7868	GAACCUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAC	26244
2435	8595	UGAUGUU C CAGGUUCU	7869	AGAACCUG CUGAUGAG	GCCGUUAGGC	CGAA AACUAUCA	26245
2441	8589	UCCAGGU U CUAUAUGG	7870	CCAUAUAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGAA	26246
2442	8588	UCCAGGU C UAUAUGG	7871	CCCAUAUA CUGAUGAG	GCCGUUAGGC	CGAA AACCUGGA	26247
2444	8586	CAGGUUCU A UAUGGGUG	7872	CACCCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGAACCUG	26248
2446	8584	GUUUCUAU A UGGGUGGU	7873	ACCACCCA CUGAUGAG	GCCGUUAGGC	CGAA AUAGAACC	26249
2455	8575	UGGGUGGU U CUCAUCGU	7874	ACGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCACCCA	26250
2456	8574	GGGUGGU C UCAUCGUG	7875	CACGAUGA CUGAUGAG	GCCGUUAGGC	CGAA AACCACCC	26251
2458	8572	GUGGUUCU C AUCGUGGU	7876	ACCACGAU CUGAUGAG	GCCGUUAGGC	CGAA AGAACAC	26252
2461	8569	GUUCUCAU C GUGGUGCC	7877	GGCACCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAAC	26253
2474	8556	UGCCAGU C GAACUGUA	7878	UACAGUUC CUGAUGAG	GCCGUUAGGC	CGAA AUCUGGCA	26254
2482	8548	CGAACUGU A CUCACGCC	7879	GGCGUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGUUCG	26255
2485	8545	ACUGUACU C ACGCCUGA	7880	UCAGGCGU CUGAUGAG	GCCGUUAGGC	CGAA AGUACAGU	26256
2496	8534	GCCUGAGU C GUUCAUUC	7881	GAUUGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGGC	26257
2499	8531	UGAGUCGU U CAAUCCUG	7882	CAGGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACGACUCA	26258
2500	8530	GAGUCGUU C AAUCCUGU	7883	ACAGGAUU CUGAUGAG	GCCGUUAGGC	CGAA AACGACUC	26259
2504	8526	CGUUCAAU C CUGUUCUU	7884	AAGAACAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGAACG	26260
2509	8521	AAUCCUGU U CUUGAUUU	7885	AAAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUU	26261
2510	8520	ACUCUGUU C UUGAUUUU	7886	AAAAUCA CUGAUGAG	GCCGUUAGGC	CGAA AACAGGAU	26262
2512	8518	CUGUUCU U GAUUUUAC	7887	GUAAAAUC CUGAUGAG	GCCGUUAGGC	CGAA AGAACAGG	26263
2516	8514	UUCUUGAU U UUACUGGU	7888	ACCAGUAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGAA	26264
2517	8513	UCUUGAUU U UACUGGUG	7889	CACCAGUA CUGAUGAG	GCCGUUAGGC	CGAA AAUCAAGA	26265
2518	8512	CUUGAUUU U ACUGGUGU	7890	ACACCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUAG	26266
2519	8511	UGAUUUU A CUGGUGUC	7891	GACACCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAUCAAA	26267
2527	8503	ACUGGUGU C UGAGUUGA	7892	UCAACUCA CUGAUGAG	GCCGUUAGGC	CGAA ACACCAGU	26268
2533	8497	GUCUGAGU U GAGCAGGG	7893	CCUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACUCAGAC	26269
2544	8486	GCAGGGGU U UUCCACC	7894	GGUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCCUGC	26270
2545	8485	CAGGGGUU U UCCACCCG	7895	CGGUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AACCCUG	26271
2546	8484	AGGGGUUU U CCCACCGC	7896	GCGGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAACCCU	26272
2547	8483	GGGGUUUU C CCACCGCC	7897	GGCGUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAAACCCC	26273
2561	8469	GCCUGGUU U CCACUUC	7898	GGAGUGGG CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGGC	26274
2562	8468	CCUGGUU C CACUCCC	7899	GGGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGG	26275
2567	8463	GUUCCACU U CCAAGUU	7900	AACUUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAC	26276
2568	8462	UUCACAU C CCAAGUU	7901	AAACUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGGAA	26277
2575	8455	UCCCAAGU U UACAUCU	7902	AAGAUGUA CUGAUGAG	GCCGUUAGGC	CGAA ACUUGGGA	26278
2576	8454	CCCAAGUU U ACAUCUUC	7903	GAAGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AACUUGGG	26279
2577	8453	CCAAGUU A CAUCUUC	7904	GGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA AAACUUGG	26280
2581	8449	GUUACAU C UUCUCGU	7905	ACAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAC	26281
2583	8447	UUAUCAU U CCUCGUAU	7906	AUACGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGUAA	26282
2584	8446	UACAUCU C CUCGUAU	7907	AAUACGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGUA	26283
2587	8443	AUCUUCU C GUUUGGG	7908	CCCAUAC CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAU	26284
2590	8440	UUCUCGU A UUGGGGUC	7909	GACCCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAGGAA	26285
2592	8438	CCUCGUAU U GGGGUCCC	7910	GGGACCCC CUGAUGAG	GCCGUUAGGC	CGAA AUACGAGG	26286
2598	8432	AUUGGGGU C CCUCCAG	7911	CUGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAAU	26287
2602	8428	GGGUCCU U CCAGUCC	7912	GGACCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGGGACCC	26288
2603	8427	GGUCCCU C CAGGUCCU	7913	AGGACCUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGGACC	26289
2609	8421	UUCAGGU C CUUUUUC	7914	GAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AACUGGAA	26290
2612	8418	CAGGUCCU U UUUUCCAU	7915	AUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGACCUG	26291
2613	8417	AGGUCCU U UUUCCAU	7916	AAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGACCU	26292
2614	8416	GUUCCUU U UUCAUUC	7917	GAAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGACC	26293
2615	8415	GUCCUUU U UCAUUCU	7918	AGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGGAC	26294
2616	8414	UCCUUUU U CCAUUCU	7919	AAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGGA	26295
2617	8413	CCUUUUU C CAUUCUUC	7920	GAAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGG	26296
2621	8409	UUUCCAU U CUUCCUAG	7921	CUAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAA	26297
2622	8408	UUUCCAU C UUCUAGG	7922	CUAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAAA	26298
2624	8406	UCCAUUCU U CCUAGGAG	7923	CUCCUAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAUGGA	26299
2625	8405	CCAUCUUC C CUAGGAGC	7924	GCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAUGG	26300
2628	8402	UUCUUCU A GGAGCACC	7925	GGUGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAA	26301

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2645	8385	UGGCUUGU C AUAUUCAC	7926	GUGAAUAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGCCA	26302
2648	8382	CUGGUCAU A UUCACUGA	7927	UCAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGACCAG	26303
2650	8380	GGUCAUAU U CACUGAAU	7928	AUUCAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUAUGACC	26304
2651	8379	GUCAUAUU C ACUGAAUG	7929	CAUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUUGAC	26305
2661	8369	CUGAAUGU A CCACAUUG	7930	CAAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCAG	26306
2668	8362	UACCACAU U GCCUGAAG	7931	CUUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGUA	26307
2679	8351	CUGAAGCU C GACUCACC	7932	GGUGAGUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUCAG	26308
2684	8346	GCUCGACU C ACCCAAUA	7933	UAUUGGGU CUGAUGAG	GCCGUUAGGC	CGAA AGUCGAGC	26309
2692	8338	CACCCAAU A CAUCUCGU	7934	ACGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGUG	26310
2696	8334	CAAUACAU C UCGUGCGU	7935	ACGCACGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAUUG	26311
2698	8332	AUACAUCU C GUGCGUGG	7936	CCACGCAC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGUAU	26312
2710	8320	CGUGGAAU U CCGUGAGA	7937	UCUCACGG CUGAUGAG	GCCGUUAGGC	CGAA AUUCCACG	26313
2711	8319	GUGGAAUU C CGUGAGAG	7938	CUCUCACG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCAC	26314
2725	8305	GAGUGGGU U UCUGACCA	7939	UGGUCAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCCACUC	26315
2726	8304	AGUGGGUU U CUGACCAG	7940	CUGGUCAG CUGAUGAG	GCCGUUAGGC	CGAA AACCCACU	26316
2727	8303	UGGGUUU C UGACCAGU	7941	ACUGGUCA CUGAUGAG	GCCGUUAGGC	CGAA AAACCCAC	26317
2736	8294	UGACCAGU C CCCCCCA	7942	UGGGGGG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGUCA	26318
2746	8284	CCCCCAU A CCGCGUU	7943	AACCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGG	26319
2754	8276	ACCGGCGU U GGAGCAGC	7944	GCUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ACGCCGGU	26320
2764	8266	GAGCAGCU C CAUCUUCU	7945	AGAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCUC	26321
2768	8262	AGCUCCAU C UUCUCUAU	7946	AUAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGCU	26322
2770	8260	CUCCAUCU U CUCUAUGA	7947	UCAUAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAG	26323
2771	8259	UCCAUCUU C UCUAUGAC	7948	GUCAUAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGGA	26324
2773	8257	CAUCUUCU C UAUGACUU	7949	AAGUCAUA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAUG	26325
2775	8255	UCUUCUCU A UGACUUUC	7950	GAAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAGA	26326
2781	8249	CUAUGACU U UCGGCAUG	7951	CAUGCCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUAG	26327
2782	8248	UAUGACUU U CGGCAUGU	7952	ACAUGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAUA	26328
2783	8247	AUGACUUU C GGCAUGUA	7953	UACAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCAU	26329
2791	8239	CGGCAUGU A GGGCAGA	7954	UCUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGCCG	26330
2806	8224	GAGCACCU U CACGAAA	7955	UUUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGCUC	26331
2807	8223	AGCACCUU C ACGCAAAA	7956	UUUUGCGU CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGCU	26332
2817	8213	CGCAAAAU U CCCUUGGC	7957	GCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGCG	26333
2818	8212	GCAAAAUU C CCUUGGCC	7958	GGCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAUUUJGC	26334
2822	8208	AAUUGCCU U GGCCUCUG	7959	CGAGGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAUU	26335
2829	8201	UUUGCCCU C GGUGCAGC	7960	GCUGCACC CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCAA	26336
2842	8188	CAGCCAGU C CUCAACCA	7961	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGCUG	26337
2845	8185	CCAGUCCU C AACCAUUU	7962	AAAUGGUU CUGAUGAG	GCCGUUAGGC	CGAA AGGACUGG	26338
2852	8178	UCAACCAU U UCAAGGAC	7963	GUCCUUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUGA	26339
2853	8177	CAACCAUU U CAAGGACC	7964	GGUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGUUG	26340
2854	8176	AACCAUUU C AAGGACCC	7965	GGGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGUU	26341
2867	8163	ACCCGAU C GUCCUAUG	7966	CAUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCGGGU	26342
2870	8160	CGAAUCCU C CUAUGCUC	7967	GAGCAUAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAUUCG	26343
2873	8157	AUGGUCCU A UGCUCUUC	7968	GAAGAGCA CUGAUGAG	GCCGUUAGGC	CGAA AGGACGAU	26344
2878	8152	CCUAUGCU C UUCAACCU	7969	AGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUAGG	26345
2880	8150	UAUGCUCU U CAACCUCA	7970	UGAGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCAUA	26346
2881	8149	AUGCUCUU C AACCUCAG	7971	CUGAGGUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCAU	26347
2887	8143	UUCAACCU C AGCACUUG	7972	CAAGUGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGAA	26348
2894	8136	UCAGCACU U GACGAGGA	7973	UCCUCGUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCUGA	26349
2905	8125	CGAGGACU C UCCGAUGU	7974	ACAUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUCG	26350
2907	8123	AGGACUCU C CGAUGUCA	7975	UGACAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUCCU	26351
2914	8116	UCCGAUGU C ACAAGGA	7976	UCCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGGA	26352
2929	8101	GAGGGUGU C ACAACACU	7977	AGUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ACACCUC	26353
2938	8092	ACAACACU C AGAAGGUC	7978	GACCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUGU	26354
2946	8084	CAGAAGGU C UGUAGAAC	7979	GUUCUACA CUGAUGAG	GCCGUUAGGC	CGAA ACCUUCUG	26355
2950	8080	AGGUCUGU A GAACACAU	7980	AUGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGACCU	26356
2959	8071	GAACACAU C CACUCCAC	7981	GUGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUUC	26357
2964	8066	CAUCCACU C CACUCUUC	7982	GAAGAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAUG	26358
2969	8061	ACUCCACU C UUCAUGGU	7983	ACCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAGU	26359
2971	8059	UCCACUCU U CAUGGUGA	7984	UCACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGGA	26360
2972	8058	CCACUCUU C AUGGUGAC	7985	GUCACCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUGG	26361
2986	8044	GACAAUGU U CCAUCCA	7986	AUGGAUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUGUC	26362
2987	8043	ACAAUGUU C CAUCCAUA	7987	UAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACAUUGU	26363

2991	8039	UGUCCAU C CAUAACUU	7988	AAGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAACA	26364
2995	8035	CCAUCCAU A ACUUUGCA	7989	UGCAAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGG	26365
2999	8031	CCAUAACU U UGCACUAG	7990	CUAGUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUAUUG	26366
3000	8030	CAUAACUU U GCACUAGU	7991	ACUAGUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGUUAUG	26367
3006	8024	UUUGCACU A GUUGGGGC	7992	GCCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAAA	26368
3009	8021	GCACUAGU U GGGGCUU	7993	AGAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA ACUAGUGC	26369
3016	8014	UUGGGGCU C UUCAUGUC	7994	GACAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCCCCAA	26370
3018	8012	GGGGCUCU U CAUGUCCG	7995	CGGACAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCCC	26371
3019	8011	GGGCUCUU C AUGUCCGG	7996	CCGGACAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCCC	26372
3024	8006	CUUCAUGU C CGGGACCG	7997	CGGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAAG	26373
3037	7993	ACCGCCCU U UGUGUACC	7998	GGUACACA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCGU	26374
3038	7992	CCGCCCUU U GUGUACCC	7999	GGGUACAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCCG	26375
3043	7987	CUUUGUGU A CCCUCUGA	8000	UCAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA ACACAAAG	26376
3048	7982	UGUACCCU C UGACUUCU	8001	AGAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGCUACA	26377
3054	7976	CUCUGACU U CUUGGACU	8002	AGUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGAG	26378
3055	7975	UCUGACUU C UUGGACUC	8003	GAGUCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGA	26379
3057	7973	UGACUUCU U GGACUCUU	8004	AAGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGUCA	26380
3063	7967	CUUGGACU C UUUUUUGG	8005	CCAAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAG	26381
3065	7965	UGGACUCU U UUUUGGGU	8006	ACCCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUCCA	26382
3066	7964	GGACUCUU U UUUUGGGU	8007	AACCCAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUCC	26383
3067	7963	GACUCUUU U UUGGGUUG	8008	CAACCCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGUC	26384
3068	7962	ACUCUUUU U UGGGUUGC	8009	GCAACCCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGU	26385
3069	7961	CUCUUUUU U GGGUUGCC	8010	GGCAACCC CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGG	26386
3074	7956	UUUUUGGU U GCCAUUA	8011	UAUAUGGC CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAA	26387
3080	7950	GUUGCCAU A UAGUAACA	8012	UGUUACUA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAAC	26388
3082	7948	UGCCAUUA A GUAACACC	8013	GGUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA AUAUGGCA	26389
3085	7945	CAUAUAGU A ACACCAAC	8014	GUUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUAUG	26390
3099	7931	AACCGCCU C UUCCACAU	8015	AUGUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCGGUU	26391
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3102	7928	CGCCUCUU C CACAUCCA	8017	UGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGCC	26393
3108	7922	UUCCACAU C CAAGGUCA	8018	UGACUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAA	26394
3115	7915	UCCAAGGU C AAUACUU	8019	AAGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGGA	26395
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3123	7907	CAUACAU U UCCGACC	8021	GGUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUUG	26397
3124	7906	AAUCACUU U UCCGACCG	8022	CGGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUU	26398
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3126	7904	UCACUUUU C CGACCGGU	8024	ACCGGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAAAGUGA	26400
3135	7895	CGACCGGU U CGAGAAAC	8025	GUUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA ACCGGUCG	26401
3136	7894	GACCGGUU C GAGAAACC	8026	GGUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AACCGGUC	26402
3146	7884	AGAAACCU C CGUUCGAC	8027	GUCGAACG CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUCU	26403
3150	7880	ACCUCCGU U CGACGAGC	8028	GCUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGGAGGU	26404
3151	7879	CCUCCGUU C GACCAGCC	8029	GGCUGGUC CUGAUGAG	GCCGUUAGGC	CGAA AACGAGGG	26405
3162	7868	CCAGCCAU C UCAGUUUU	8030	AAAACUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUGG	26406
3164	7866	AGCCAUUC C AGUUUUGC	8031	GCAAAACU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGCU	26407
3168	7862	AUCUCAGU U UUGCUGUG	8032	CACAGCAA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAU	26408
3169	7861	UCUCAGUU U UGCUGUGC	8033	GCACAGCA CUGAUGAG	GCCGUUAGGC	CGAA AACUGAGA	26409
3170	7860	CUCAGUUU U GCUGUGCC	8034	GGCACAGC CUGAUGAG	GCCGUUAGGC	CGAA AAACUGAG	26410
3182	7848	GUGCCCUU A GAGACUGG	8035	CCAGUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGGCAC	26411
3198	7832	GAUGCCCU C CAGUGACA	8036	UGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAUC	26412
3208	7822	AGUGACAU U GCCUUCUU	8037	AAGAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCACU	26413
3213	7817	CAUUGCCU U CUUUCUUG	8038	CAGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUUG	26414
3214	7816	AUUGCCUU C UUUCCUGG	8039	CCAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGCAAU	26415
3216	7814	UGCCUUCU U UCCUGCGG	8040	CGCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGCA	26416
3217	7813	GCCUUCUU U CCUGGCGU	8041	ACGCCAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAGGC	26417
3218	7812	CCUUCUUU C CUGGCGUG	8042	CACGCCAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAGG	26418
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3229	7801	GGCGUGUU U UGCGGUG	8044	CAGCGGCG CUGAUGAG	GCCGUUAGGC	CGAA AACACGCC	26420
3230	7800	GCGUGUUU U GCCGUGA	8045	UCAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA AAACCGC	26421
3244	7786	UGAGCGAU C GACUUCGA	8046	UCGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA AUCCGUCA	26422
3249	7781	GAUCGACU U CGAUGAUG	8047	CAUCAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGUCGAUC	26423
3250	7780	AUCGACUU C GAUGAUGG	8048	CCAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGAU	26424
3262	7768	GAUGCCCU C UUGGCGGU	8049	ACCGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCCAUC	26425

3264	7766	UGGCCUCU U UGCGGUAC	8050	GUACCGCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGCCA	26426
3265	7765	GGCCUCUU U GCGGUACC	8051	GGUACCGC CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGGCC	26427
3271	7759	UUUGCGGU A CCUAGUGA	8052	UCACUAGG CUGAUGAG	GCCGUUAGGC	CGAA	ACCGCAAA	26428
3275	7755	CGGUACCU A GUGAACUC	8053	GAGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	AGGUACCG	26429
3283	7747	AGUGAACU C UUCUUUUG	8054	CAAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCACU	26430
3285	7745	UGAACUCU U CUUUUGUC	8055	GACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUUCA	26431
3286	7744	GAACUCUU C UUUUGUCA	8056	UGACAAAA CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGUUC	26432
3288	7742	ACUCUUUCU U UUGUCAUC	8057	GAUGACAA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGAGU	26433
3289	7741	CUCUUCUU U UGUCAUCU	8058	AGAUGACA CUGAUGAG	GCCGUUAGGC	CGAA	AAGAAGAG	26434
3290	7740	UCUUCUUU U GUCAUCUG	8059	CAGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAAGA	26435
3293	7737	UCUUUUUG C AUCUGGUU	8060	AACCAGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAAAGA	26436
3296	7734	UUUGUCAU C UGGUUGAG	8061	CUCAACCA CUGAUGAG	GCCGUUAGGC	CGAA	AUGACAAA	26437
3301	7729	CAUCUGGU U GAGUCUUU	8062	AAAGACUC CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGAUG	26438
3306	7724	GGUUGAGU C UUUUUUUC	8063	GAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA	ACUCAACC	26439
3308	7722	UUGAGUCU U UCUUUCCA	8064	UGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGACUCAA	26440
3309	7721	UGAGUCUU U CUUUCCAA	8065	UUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGACUCA	26441
3310	7720	GAGUCUUU C UUUCCAAA	8066	UUUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AAAGACUC	26442
3312	7718	GUCUUUCU U UCCAAACC	8067	GGUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAAGAC	26443
3313	7717	UCUUUCUU U CCAAACCU	8068	AGGUUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAAAGA	26444
3314	7716	CUUUUCUU C CAAACCUC	8069	GAGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAAAG	26445
3322	7708	CCAAACCU C UCCCAAGG	8070	CCUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUUUGG	26446
3324	7706	AAACCUCU C CCAAGGUG	8071	CACCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGUUU	26447
3336	7694	AGGUGCGU C CUUUUGCC	8072	GGCAAAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACGCACCU	26448
3339	7691	UGCGUCCU U UUGCCCCA	8073	UGGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGACGCA	26449
3340	7690	GCGUCCUU U UGCCCCAC	8074	GUGGGGCA CUGAUGAG	GCCGUUAGGC	CGAA	AAGACGCG	26450
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3353	7677	CCACCUCU U UUUAGUCC	8077	GGACUAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGUGG	26453
3354	7676	CACCUCUU U UUAGUCCU	8078	AGGACUAA CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGGUG	26454
3355	7675	ACCUCUUU U UAGUCCUG	8079	CAGGACUA CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGGU	26455
3356	7674	CCUCUUUU U AGUCCUGG	8080	CCAGGACU CUGAUGAG	GCCGUUAGGC	CGAA	AAAAGAGG	26456
3357	7673	CUCUUUUU A GUCCUGGU	8081	ACCAGGAC CUGAUGAG	GCCGUUAGGC	CGAA	AAAAAGAG	26457
3360	7670	UUUUUAGU C CUGGUUUU	8082	AAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUAAAAA	26458
3366	7664	GUCCUGGU U UUUCCAUG	8083	CAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGGAC	26459
3367	7663	UCCUGGUU U UUUCAUGU	8084	ACAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AACCAGGA	26460
3368	7662	CCUGGUUU U UCCAUGUU	8085	AACAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAACCAGG	26461
3369	7661	CUGGUUUU U CCAUGUUC	8086	GAACAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAACCAG	26462
3370	7660	UGGUUUUU C CAUGUUCU	8087	AGAACAUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAAACCA	26463
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3377	7653	UCCAUGUU C UUUUAGAG	8089	CUCAUAAA CUGAUGAG	GCCGUUAGGC	CGAA	AACAUGGA	26465
3379	7651	CAUGUUCU U UAUAGUG	8090	CACUAUA CUGAUGAG	GCCGUUAGGC	CGAA	AGAACAUG	26466
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3396	7634	UCCAUGUU A UGGAUAGA	8095	UCUAUCCA CUGAUGAG	GCCGUUAGGC	CGAA	AACAUGGA	26471
3402	7628	UUAUGGAU A GACAUGAC	8096	GUCAUGUC CUGAUGAG	GCCGUUAGGC	CGAA	AUCCAUA	26472
3441	7589	GGCAGAGU C CGAUGGCA	8097	UGCCAUCG CUGAUGAG	GCCGUUAGGC	CGAA	ACUCUGCC	26473
3452	7578	AUGGCAGU U GUUGCGUU	8098	AACGCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUGCCAU	26474
3455	7575	GCAGUUGU U GCGUCCA	8099	UGGAACGC CUGAUGAG	GCCGUUAGGC	CGAA	ACAACUGC	26475
3460	7570	UGUUGCGU U CCAAACAG	8100	CUUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	ACCAACA	26476
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3473	7557	ACAGAGCU U GCUCCAUU	8102	AAUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCUGU	26478
3477	7553	AGCUUGCU C CAUUCUCC	8103	GGAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAAGCU	26479
3481	7549	UGCUCCAU U CUCCAAA	8104	UUUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAGCA	26480
3482	7548	GUCCAUAU C UCCCAAAG	8105	CUUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAUGGAGC	26481
3484	7546	UCCAUCU C CCAAAGCG	8106	CGCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGGA	26482
3494	7536	CAAAGCGU C ACCGUGC	8107	CGAGCGGU CUGAUGAG	GCCGUUAGGC	CGAA	ACGCUUUG	26483
3512	7518	GCCGUGAU C AAAAUUCC	8108	GGAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA	AUACGGC	26484
3518	7512	AUCAAUUU U CCGGCUUC	8109	GAAGCCGG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUUGA	26485
3519	7511	UCAAAUUU C CCGCUUCU	8110	AGAAGCCG CUGAUGAG	GCCGUUAGGC	CGAA	AAUUUUGA	26486
3525	7505	UUCGCGCU U CUCGUACU	8111	AGUACGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCCGGAA	26487

3526	7504	UCCGGCUU C UCGUACUG	8112	CAGUACGA CUGAUGAG	GCCGUUAGGC	CGAA AAGCCGGA	26488
3528	7502	CGGCUUCU C GUACUGUC	8113	GACAGUAC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGCCG	26489
3531	7499	CUUCUCGU A CUGUCUUC	8114	GAAGACAG CUGAUGAG	GCCGUUAGGC	CGAA ACGAGAAG	26490
3536	7494	CGUACUGU C UUCACAGA	8115	UCUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGUACG	26491
3538	7492	UACUGUCU U CACAGACG	8116	CGUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGACAGUA	26492
3539	7491	ACUGUCUU C ACAGACGG	8117	CCGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGACAGU	26493
3550	7480	AGACGGGU U CACUACUA	8118	UAGUAGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCCGUCU	26494
3551	7479	GACGGGUU C ACUACUAC	8119	GUAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA AACCCGUC	26495
3555	7475	GGUUCACU A CUACUGCA	8120	UGCAGUAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAACC	26496
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3567	7463	CUGCAGCU A GAGACACC	8122	GGUGUCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCAG	26498
3581	7449	ACCAAGAU C AGCAUGAU	8123	AUCAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGGU	26499
3590	7440	AGCAUGAU C UGUCCAAC	8124	GUUGGACA CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGCU	26500
3594	7436	UGAUCUGU C CAACUUUC	8125	GAAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUCA	26501
3600	7430	GUCCAACU U UCUUCUGC	8126	GCAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGAC	26502
3601	7429	UCCAACUU U CUUCUGCA	8127	UGCAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGGA	26503
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3604	7426	AACUUUCU U CUGCAUGA	8129	UCAUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGUU	26505
3605	7425	ACUUUCUU C UGCAUGAU	8130	AUCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGU	26506
3628	7402	GGUGCGCU C UAAUUCUG	8131	CAGAAUUA CUGAUGAG	GCCGUUAGGC	CGAA AGCGCACC	26507
3630	7400	UGCGUCUC A AUUCUGGG	8132	CCCAGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGAGCGCA	26508
3633	7397	GCUCUAAU U CUGGGACG	8133	CGUCCAGC CUGAUGAG	GCCGUUAGGC	CGAA AUUAGAGC	26509
3634	7396	CUCUAAU C UGGGACGU	8134	ACGUCCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUAGAGG	26510
3643	7387	UGGAGACU C CGUGGCCA	8135	UGGCCACG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCCA	26511
3661	7369	GAUGCCAU C CACUACAG	8136	CUGUAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAUC	26512
3666	7364	CAUCCACU A CAGCGUUC	8137	GAACGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAUG	26513
3673	7357	UACAGCGU U CUUCAUGA	8138	UCAUGAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGCUGUA	26514
3674	7356	ACAGCGUU C UUCAUGAU	8139	AUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AACGCUGU	26515
3676	7354	AGCGUUCU U CAUGAUUC	8140	GAAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAACGCU	26516
3677	7353	GCGUUCUU C AUGAUUCC	8141	GGAAUCAU CUGAUGAG	GCCGUUAGGC	CGAA AAGAACGC	26517
3683	7347	UUCAUGAU U CCGGCCGC	8142	GCGGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGAA	26518
3684	7346	UCAUGAUU C CGGCCGCU	8143	AGCGGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAUCAUGA	26519
3695	7335	GCCGUGU C CGCCGUCG	8144	CAGCGGCG CUGAUGAG	GCCGUUAGGC	CGAA ACACGGCG	26520
3716	7314	GAGCGCAU U GCCUCAGC	8145	GCUGAGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCGCUC	26521
3721	7309	CAUUGCCU C AGCUUGCC	8146	GGCAAGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUUG	26522
3726	7304	CCUCAGCU U GCCAACCG	8147	CGGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGAGG	26523
3745	7285	AACCAUGU A GGCAUAGU	8148	ACUAGGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGUU	26524
3751	7279	GUAGGCAU A GUGGCAAA	8149	UUUGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCUAC	26525
3770	7260	AGGAGUGU U GCCGUGU	8150	ACAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA ACACUCCU	26526
3779	7251	CGCGUGU U ACCGUAAAC	8151	GUUACGGU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGC	26527
3780	7250	CCGUGUUU A CCGUAAACG	8152	CGUUAACG CUGAUGAG	GCCGUUAGGC	CGAA AACAGCGG	26528
3785	7245	GUUACCGU A ACGGUGAG	8153	CUCACCGU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUAAAC	26529
3801	7229	GGGUGACU U GUCCCCAG	8154	CUGGGGAC CUGAUGAG	GCCGUUAGGC	CGAA AGUCACCC	26530
3804	7226	UGACUUGU C CCCAGCAU	8155	AUGCUGGG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUCA	26531
3813	7217	CCCAGCAU C CGGCUGCU	8156	AGCAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGGG	26532
3822	7208	CGGCUGCU A GCAGGAGA	8157	UCUCCUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGCCG	26533
3840	7190	CCGACACU C CAACAUCG	8158	CGAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCGG	26534
3847	7183	UCCAACAU C GACGAAGG	8159	CCUUCGUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGGA	26535
3864	7166	GGAAGCCU C GCGCGAGU	8160	ACUCGCGC CUGAUGAG	GCCGUUAGGC	CGAA AGGCUUCC	26536
3879	7151	GUGUGAAU A GUGCACUU	8161	AAGUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACAC	26537
3887	7143	AGUGCACU U GCCUGAAC	8162	GUUCAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCACU	26538
3898	7132	CUGAACGU U UAUUGAGG	8163	CCUCAUAU CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCAG	26539
3899	7131	UGAACGUU U AUUGAGGU	8164	ACCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA AACGUUCA	26540
3900	7130	GAACGUUU A UUGAGGUC	8165	GACCUCAA CUGAUGAG	GCCGUUAGGC	CGAA AAACGUUC	26541
3902	7128	ACGUUUUAU U GAGGUCAA	8166	UUGACCUC CUGAUGAG	GCCGUUAGGC	CGAA AUAAACGU	26542
3908	7122	AUUGAGGU C AAUGAGGU	8167	ACCUCAUU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCAAU	26543
3919	7111	UGAGGUGU U GAUGUAAU	8168	AUUACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACACCUCA	26544
3925	7105	GUUGAUGU A AUCUGACG	8169	CGUCAGAU CUGAUGAG	GCCGUUAGGC	CGAA AUAUCAAC	26545
3928	7102	GAUGUAAU C UGACGUGA	8170	UCACGUCA CUGAUGAG	GCCGUUAGGC	CGAA AUUACAUC	26546
3938	7092	GACGUGAU C AAAUGCUU	8171	AAGCAUUU CUGAUGAG	GCCGUUAGGC	CGAA AUCACGUC	26547
3946	7084	CAAUUGCU U UAGCAGUG	8172	CACUGCUA CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUTG	26548
3947	7083	AAUUGCUU U AGCAGUGG	8173	CCACUGCU CUGAUGAG	GCCGUUAGGC	CGAA AAGCAUUU	26549

Table VIII

3948	7082	AAUGCUUU A GCAGUGGA	8174	UCCACUGC CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCAUU	26550
3971	7059	ACCGCUGU U GUCACAGC	8175	GCUGUGAC CUGAUGAG	GCCGUUAGGC	CGAA	ACAGCGGU	26551
3974	7056	GCUGUUGU C ACAGCGUA	8176	UACGCUGU CUGAUGAG	GCCGUUAGGC	CGAA	ACAACAGC	26552
3982	7048	CACAGCGU A CAGUGACC	8177	GGUCACUG CUGAUGAG	GCCGUUAGGC	CGAA	ACGCUGUG	26553
3998	7032	CAGGCUGU U GCCGGCCU	8178	AGGCCGGC CUGAUGAG	GCCGUUAGGC	CGAA	ACAGCCUG	26554
4007	7023	GCCGGCCU C AAGUCCAA	8179	UUGGACUU CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCGGC	26555
4012	7018	CCUCAAGU C CAAAAGAA	8180	UUCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGAGG	26556
4024	7006	AAGAAACU C UCCCAUGC	8181	GCAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGUUUUCU	26557
4026	7004	GAAACUCU C CCAUGCUG	8182	CAGCAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUUUUC	26558
4039	6991	GCUGAAAU U CUCCUUGA	8183	UCAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AAUUCAGC	26559
4040	6990	CUGAAAUU C UCCUUGAC	8184	GUCAAGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAUUUCAG	26560
4042	6988	GAAAUUCU C CUUGACCU	8185	AGGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGAAUUUC	26561
4045	6985	AUUCUCCU U GACCUCAA	8186	UUGAGGUC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGAAU	26562
4051	6979	CUUGACCU C AAUUCUUU	8187	AAAGAAUU CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCAAG	26563
4055	6975	ACCUCAAU U CUUUGCCC	8188	GGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUGAGGU	26564
4056	6974	CCUCAAUU C UUUGCCCA	8189	UGGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGAGG	26565
4058	6972	UCAAUUCU U UGCCCAA	8190	UUUGGGCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAUUGA	26566
4059	6971	CAAUUCUU U GCCCAAAC	8191	GUUUGGGC CUGAUGAG	GCCGUUAGGC	CGAA	AAGAAUUG	26567
4076	6954	AAACUGCU U AUGUCACU	8192	AGUGACAU CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUUUU	26568
4077	6953	AACUGCUU A UGUCACUC	8193	GAGUGACA CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAGUU	26569
4081	6949	GCUAUUGU C ACUCUUGG	8194	CCAAGAGU CUGAUGAG	GCCGUUAGGC	CGAA	ACAUUAGC	26570
4085	6945	AUGUCACU C UUGGUCUU	8195	AAGACCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGUGACAU	26571
4087	6943	GUACACUCU U GGUCUUAU	8196	AUAAGACC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUGAC	26572
4091	6939	CUCUUGGU C UUAUCUAG	8197	CUAGAUAA CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAGAG	26573
4093	6937	CUUGGUCU U AUCUAGCC	8198	GGCUAGAU CUGAUGAG	GCCGUUAGGC	CGAA	AGACCAAG	26574
4094	6936	UUGGUCUU A UCUAGCCA	8199	UGGCUAGA CUGAUGAG	GCCGUUAGGC	CGAA	AAGACCAA	26575
4096	6934	GGUCUUAU C UAGCCAAC	8200	GUUGGCUA CUGAUGAG	GCCGUUAGGC	CGAA	AUAAGACC	26576
4098	6932	UCUUAUCU A GCCAACCC	8201	GGGUUGGC CUGAUGAG	GCCGUUAGGC	CGAA	AGUAAGA	26577
4109	6921	CAACCCAU C UCGUUGGC	8202	GCCAACGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUUG	26578
4111	6919	ACCCAUCU C GUUGGCUG	8203	CAGCCAAC CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGGGU	26579
4114	6916	CAUCUCGU U GGCUGCCA	8204	UGGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA	ACGAGAUG	26580
4130	6900	ACUGCGCU C ACAAGGGU	8205	ACCCUUGU CUGAUGAG	GCCGUUAGGC	CGAA	AGCGCAGU	26581
4139	6891	ACAAGGGU C AUGACACA	8206	UGUGUCAU CUGAUGAG	GCCGUUAGGC	CGAA	ACCCUUGU	26582
4151	6879	ACACAAAU C AGGAACAC	8207	GUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGUGU	26583
4164	6866	ACACGGCU A GCUGGUUG	8208	CAACCAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGCCGUGU	26584
4171	6859	UAGCUGGU U GUCUGUCU	8209	AGACAGAC CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGCUA	26585
4174	6856	CUGGUUGU C UGUCUGCG	8210	CGCAGACA CUGAUGAG	GCCGUUAGGC	CGAA	ACAACCAG	26586
4178	6852	UUGUCUGU C UGCGAACG	8211	CGUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA	ACAGACAA	26587
4188	6842	GCGAACGU U GCUUCUCU	8212	AGAGAAGC CUGAUGAG	GCCGUUAGGC	CGAA	ACGUUCGC	26588
4192	6838	ACGUUGCU U CUCUGGCU	8213	AGCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAACGU	26589
4193	6837	CGUUGCUU C UCUGGCUC	8214	GAGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAACG	26590
4195	6835	UUGCUUCU C UGGCUCAG	8215	CUGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGCAA	26591
4201	6829	CUCUGGCU C AGGAAUUA	8216	UAAUUCU CUGAUGAG	GCCGUUAGGC	CGAA	AGCCAGAG	26592
4208	6822	UCAGGAAU U AGCACAUA	8217	AUUGUGCU CUGAUGAG	GCCGUUAGGC	CGAA	AUUCUGA	26593
4209	6821	CAGGAAAU A GCACAAUC	8218	GAUUGUGC CUGAUGAG	GCCGUUAGGC	CGAA	AAUUCUG	26594
4217	6813	AGCACAUA C AUCAAGAG	8219	CUCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	AUUGUCU	26595
4220	6810	ACAAUCAU C AAGAGAAG	8220	CUUCUCUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUUGU	26596
4244	6786	AGCAACAU U CCGCGAU	8221	AUCGCCGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUUGCU	26597
4245	6785	GCAACAUA C CGGCGAUC	8222	GAUCGCCG CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUUGC	26598
4253	6777	CCGGCGAU C UUCGUUCC	8223	GGAACGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCGCCGG	26599
4255	6775	GGCGAUCU U CGUUCUUG	8224	CAGGAACG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUCGCC	26600
4256	6774	GCGAUCUU C GUUCCUGG	8225	CCAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA	AAGAUCGC	26601
4259	6771	AUCUUCGU U CCUGGAAC	8226	GUUCCAGG CUGAUGAG	GCCGUUAGGC	CGAA	ACGAAGAU	26602
4260	6770	UCUUCGUU C CUGGAACU	8227	AGUUCGAG CUGAUGAG	GCCGUUAGGC	CGAA	AACGAAGA	26603
4269	6761	CUGGAACU U CAGCCAUC	8228	GAUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUCGAG	26604
4270	6760	UGGAACUU C AGCCAUC	8229	GGAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA	AAGUCCA	26605
4277	6753	UCAGCCAUA C CAACAGAA	8230	UUCUGUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGCUGA	26606
4292	6738	AAAAGGU C GCGACUCC	8231	GGAGUCGC CUGAUGAG	GCCGUUAGGC	CGAA	ACCUUUUU	26607
4299	6731	UCGCGACU C CCAAGACA	8232	UGUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGUCGCGA	26608
4314	6716	CAGCGCCU C CCAACCU	8233	AGGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGCUG	26609
4323	6707	CCAACCU A UCUUCCA	8234	UGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUUUGG	26610
4325	6705	AAACCUAU C UUCCAAU	8235	AUUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AUAGGUUU	26611

4327	6703	ACCUAUCU U UCCAAUGC	8236	GCAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUAGGU	26612
4328	6702	CCUAUCUU U CCAAUGCC	8237	GGCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUAGG	26613
4329	6701	CUAUCUUU C CAAUGCCC	8238	GGGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAUAG	26614
4339	6691	AAGGCCU U CCGUGCA	8239	UGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCAU	26615
4340	6690	AUGCCCU C CCGUGCAU	8240	AUGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AAGGGCAU	26616
4362	6668	GGAAGAAU A CUCCCAUG	8241	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUCUCC	26617
4365	6665	AGAAUACU C CCAUGGUC	8242	GACCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUAUUCU	26618
4373	6657	CCCAUGGU C AUCACACU	8243	AGUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGG	26619
4376	6654	AUGGUCAU C ACACUCAA	8244	UUGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACCAU	26620
4382	6648	AUCACACU C AAUAAGGC	8245	GCCUUAU CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAU	26621
4386	6644	CACUCAU A AGGCAAUC	8246	GAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUUGAGUG	26622
4394	6636	AAGGCAAU C AAGGCAAU	8247	AUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCU	26623
4403	6627	AAGGCAAU U GUCUGAAG	8248	CUUCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCU	26624
4406	6624	GCAAUUGU C UGAAGAGC	8249	GCUCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUGC	26625
4417	6613	AAGAGCAU C UGGCAGUU	8250	AACUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUU	26626
4425	6605	CUGGCAGU U CCUCCAGG	8251	CCUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCAG	26627
4426	6604	UGGCAGUU C CUCCAGGG	8252	CCUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AACUGCCA	26628
4429	6601	CAGUCCU C CAGGGCCA	8253	UGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAACUG	26629
4439	6591	AGGGCCAU U CUGUGAGC	8254	GCUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCU	26630
4440	6590	GGGCCAU C UGUGAGCU	8255	AGCUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCC	26631
4449	6581	UGUGAGCU C UUCUCCU	8256	AGGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCACA	26632
4451	6579	UGAGCCU U CCUCCUU	8257	AAAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGCUC	26633
4452	6578	GAGCCU C CUCCUUC	8258	GAAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGCUC	26634
4455	6575	CUUCUCCU C CUUCUCU	8259	AGAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAG	26635
4458	6572	UUCUCCU U UCUCUGCA	8260	UGCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAA	26636
4459	6571	UCCUCCU U CUCUGCAG	8261	CUCGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGGA	26637
4460	6570	CCUCCUU C UCUGCAGU	8262	ACUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGG	26638
4462	6568	UCCUUUCU C UGCAGUGG	8263	CCACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGA	26639
4480	6550	CACAACGU A CAUGGUGU	8264	ACACCAUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUUGUG	26640
4489	6541	CAUGGUGU C AAGUGCU	8265	AAGCACU CUGAUGAG	GCCGUUAGGC	CGAA ACACCAUG	26641
4497	6533	CAUGGCU U CCAUGUC	8266	GACAUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCACUUG	26642
4498	6532	AAGUGCU C CCAUGUCU	8267	AGACAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGCACU	26643
4505	6525	UCCCAUGU C UCCCCAU	8268	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA AACUGGGA	26644
4507	6523	CCAUGUCU U CCCAUGA	8269	UCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGACAUGG	26645
4508	6522	CAUGUCU C CCCAUGAA	8270	UUCAUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACAUG	26646
4522	6508	GAAGUCU C AGGCAUCU	8271	AGAUGCCU CUGAUGAG	GCCGUUAGGC	CGAA AGCACUUC	26647
4529	6501	UCAGGCAU C UUUCCAG	8272	CUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGCCUGA	26648
4531	6499	AGGCAUCU U UCCCAGAA	8273	UUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCCU	26649
4532	6498	GGCAUCU U CCCAGAAC	8274	GUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGCC	26650
4533	6497	GCAUCUU C CCAGAAC	8275	GGUUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAUGC	26651
4543	6487	CAGAACCU C AAUGAGCC	8276	GGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA AGGUUCUG	26652
4554	6476	UGAGCCU A UCUGAGAA	8277	UUCUCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUC	26653
4556	6474	AGCCCUA C UGAGAACG	8278	CGUUCUA CUGAUGAG	GCCGUUAGGC	CGAA AUAGGGCU	26654
4566	6464	GAGAACGU U UUCCGAG	8279	CUCGGGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUUCUC	26655
4567	6463	AGAACGU U UCCCGAGG	8280	CCUCGGA CUGAUGAG	GCCGUUAGGC	CGAA AACGUUCU	26656
4568	6462	GAACGUU U CCCGAGG	8281	GCCUCGG CUGAUGAG	GCCGUUAGGC	CGAA AAACGUUC	26657
4569	6461	AACGUUU C CCGAGCG	8282	CGCCUCG CUGAUGAG	GCCGUUAGGC	CGAA AAAACGUU	26658
4582	6448	GGCGAAGU C CUUGAACG	8283	CGUUCAG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGCC	26659
4585	6445	GAAGUCCU U GAACGCCU	8284	AGGCAUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGACUUC	26660
4594	6436	GAACGCCU U UAGUGCCU	8285	AGGCACUA CUGAUGAG	GCCGUUAGGC	CGAA AGGCGUUC	26661
4595	6435	AACGCCU U AGUGCCUG	8286	CAGGCACU CUGAUGAG	GCCGUUAGGC	CGAA AAGCGUUC	26662
4596	6434	ACGCCUU A GUGCCUGG	8287	CCAGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGCGU	26663
4609	6421	CUGGUGAU C CGAGUACA	8288	UGUACUG CUGAUGAG	GCCGUUAGGC	CGAA AUCACCAG	26664
4615	6415	AUCCGAGU A CACCCUGG	8289	CCAGGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACUCGGAU	26665
4627	6403	CCUGGCGU C AAUCCAGC	8290	GCUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACGCCAGG	26666
4631	6399	GCGUCAU C CAGCGCGG	8291	CCGCGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUGACCG	26667
4643	6387	CGCGCCU C AGAAUCU	8292	AAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGCCGCG	26668
4649	6381	CUCAGAAU C UUCUUC	8293	GAAAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGAG	26669
4651	6379	CAGAAUCU U CCUUCAC	8294	GUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAUUCUG	26670
4652	6378	AGAAUCU C CUUCACC	8295	GGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUUCU	26671
4655	6375	AUCUCCU U UCACCAAG	8296	CUUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAAGAU	26672
4656	6374	UCUCCU U CACCAAGC	8297	GCUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAAGA	26673

Table VIII

4657	6373	CUUCCUUU C ACCAAGCU	8298	AGCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAAG	26674
4666	6364	ACCAAGCU U CGUGAUGA	8299	UCAUCACG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGU	26675
4667	6363	CCAAGCUU C GUGAUGAC	8300	GUCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUUGG	26676
4677	6353	UGAUGACU U CCACUUCG	8301	CGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUCA	26677
4678	6352	GAUGACUU C CACUUCGU	8302	ACGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAUC	26678
4683	6347	CUUCCACU U CGUUGUUG	8303	CAACAACG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAAG	26679
4684	6346	UUCCACUU C GUUGUUGU	8304	ACAACAAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUGGAA	26680
4687	6343	CACUUCGU U GUUGUCUU	8305	AAGACAAC CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGUG	26681
4690	6340	UUCGUUGU U GUCUUCUA	8306	UAGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAACGAA	26682
4693	6337	GUUGUUGU C UUCUAAAA	8307	UUUUAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAC	26683
4695	6335	UGUUGUCU U CUAAAAUU	8308	AAUUUUAG CUGAUGAG	GCCGUUAGGC	CGAA AGACAACA	26684
4696	6334	GUUGUCUU C UAAAAUUG	8309	CAAUUUUA CUGAUGAG	GCCGUUAGGC	CGAA AAGACAAC	26685
4698	6332	UGUCUUCU A AAAUUGUG	8310	CACAAUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGACA	26686
4703	6327	UCUAAAAU U GUGUUUGU	8311	ACAAACAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUAGA	26687
4708	6322	AAUUGUGU U UGUCCUAG	8312	CUAGGACA CUGAUGAG	GCCGUUAGGC	CGAA ACACAAUU	26688
4709	6321	AUUGUGUU U GUCCUAGG	8313	CCUAGGAC CUGAUGAG	GCCGUUAGGC	CGAA AACACAAU	26689
4712	6318	GUGUUUGU C CUAGGACC	8314	GGUCCUAG CUGAUGAG	GCCGUUAGGC	CGAA ACAACAC	26690
4715	6315	UUUGUCCU A GGACCAUC	8315	GAUGGUCC CUGAUGAG	GCCGUUAGGC	CGAA AGGACAAA	26691
4723	6307	AGGACCAU C AAAGCACC	8316	GGUGCUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCCU	26692
4736	6294	CACCACCU C CGGUCGUG	8317	CACGACCG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGUG	26693
4741	6289	CCUCCGGU C GUGGUAUG	8318	CAUACCAC CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAGG	26694
4747	6283	GUCGUGGU A UGACACUC	8319	GAGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ACCACGAC	26695
4755	6275	AUGACACU C CAGCCGCU	8320	AGCGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCAU	26696
4771	6259	UGCAACCU U GUAAGCCA	8321	UGGCUUAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUUGCA	26697
4774	6256	AACCUUGU A AGCCAGCC	8322	GGCUGGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAAGGUU	26698
4795	6235	UGGCAGAU C UGCAGUCC	8323	GGACUGCA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGCCA	26699
4802	6228	UCUGCAGU C CUACACAG	8324	CUGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA ACUGCAGA	26700
4805	6225	GCAGUCCU C AACAGUUC	8325	GAACUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUCG	26701
4812	6218	UCAACAGU U CCAGAAAG	8326	CUUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUGA	26702
4813	6217	CAACAGUU C CAGAAAGU	8327	ACUUUCUG CUGAUGAG	GCCGUUAGGC	CGAA AACUGUUG	26703
4822	6208	CAGAAAGU U UUUUCUCU	8328	AGAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACUUUCUG	26704
4823	6207	AGAAAGUU U UUUUCUCU	8329	GAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACUUUCU	26705
4824	6206	GAAAGUUU U UUCUCUCU	8330	AGAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAACUUUC	26706
4825	6205	AAAGUUUU U UCUCUCUU	8331	AAGAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACUUU	26707
4826	6204	AAGUUUUU U UCUCUCUU	8332	GAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAACUUU	26708
4827	6203	AGUUUUUU C UCUCUCUU	8333	AGAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA AAAAACUU	26709
4829	6201	UUUUUUUU C UCUUCUCC	8334	GGAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAAA	26710
4831	6199	UUUUCUCU C UUCUCCUC	8335	GAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGAGAAAA	26711
4833	6197	UUCUCUCU U CUCCUCUG	8336	CAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGAGAA	26712
4834	6196	UCUCUCUU C UCCUCUGA	8337	UCAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGAGA	26713
4836	6194	UCUCUCUU C CUCUGAGC	8338	GCUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAGA	26714
4839	6191	CUUCUCCU C UGAGCCCG	8339	CCGGCUCU CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAG	26715
4849	6181	GAGCCGGU A UUCCCAU	8340	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACCGGCUC	26716
4851	6179	GCCGGUAA U CCCAUCC	8341	GGAUGGGG CUGAUGAG	GCCGUUAGGC	CGAA AUACCGGC	26717
4852	6178	CCGGUAAU C CCCAUCCA	8342	UGGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUACCGG	26718
4858	6172	UUCCCAU C CAUGGUAAU	8343	AUACCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGAA	26719
4865	6165	UCCAUGGU A UAUACCUU	8344	AAGGUAAU CUGAUGAG	GCCGUUAGGC	CGAA ACCAUGGA	26720
4867	6163	CAUGGUAAU A UACCUUCU	8345	AGAAGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUACCAUG	26721
4869	6161	UGGUAAU A CCUUCUCA	8346	UGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUAUACCA	26722
4873	6157	AUAUACCU U CUCACGCU	8347	AGCGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUAAU	26723
4874	6156	UAUACCUU C UCACGCUC	8348	GAGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGUAAU	26724
4876	6154	UACCUUCU C ACGCUCUG	8349	CAGAGCGU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGUA	26725
4882	6148	CUCACGCU C UGUUGGU	8350	ACCAACCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGUGAG	26726
4887	6143	GCUCUGGU U GGUAGAAU	8351	AUUCUACC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGAGC	26727
4891	6139	UGGUUGGU A GAAUUGAG	8352	CUCAAUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCA	26728
4896	6134	GGUAGAAU U GAGCGAUC	8353	GAUCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AUUCUACC	26729
4904	6126	UGAGCGAU C AGUCCGUU	8354	AACGGACU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCUCA	26730
4908	6122	CGAUCAGU C CGUUGGCG	8355	GCCAAACG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUCG	26731
4912	6118	CAGUCCGU U UGGCAUGU	8356	ACAUGCCA CUGAUGAG	GCCGUUAGGC	CGAA ACGACUG	26732
4913	6117	AGUCCGUU U GGCAUGUU	8357	AACAUGCC CUGAUGAG	GCCGUUAGGC	CGAA AACGGACU	26733
4921	6109	UGGCAUGU U GAUGUUGU	8358	ACAACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGCCA	26734
4927	6103	GUUGAUGU U GUCCAGCA	8359	UGCUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAC	26735

Table VIII

4930	6100	GAUGUUGU C CAGCAUGA	8360	UCAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA ACAACAUC	26736
4940	6090	AGCAUGAU U CGUGCCUC	8361	GAGGCACG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGCU	26737
4941	6089	GCAUGAUU C GUGCCUCA	8362	UGAGGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAUCAUGC	26738
4948	6082	UCGUGCCU C AGUCCAAU	8363	AUUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AGGCACGA	26739
4952	6078	GCCUCAGU C CAAUGGGC	8364	GCCCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGGC	26740
4966	6064	GGCGAAGU U CGAGUCGU	8365	ACGACUCG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGCC	26741
4967	6063	GCGAAGUU C GAGUCGUC	8366	GACGACUC CUGAUGAG	GCCGUUAGGC	CGAA AACUUCGC	26742
4972	6058	GUUCGAGU C GUCUUAU	8367	AUGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA ACUCGAAC	26743
4975	6055	CGAGUCGU C UUCAUUCG	8368	CGAAUGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGACUCG	26744
4977	6053	AGUCGUCU U CAUUCGUG	8369	CACGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGACGACU	26745
4978	6052	GUCGUCUU C AUUCGUGU	8370	ACACGAAU CUGAUGAG	GCCGUUAGGC	CGAA AAGACGAC	26746
4981	6049	GUCUUAU U CGUGUGCC	8371	GGCACACG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAGAC	26747
4982	6048	UCUUAU C GUGUGCCC	8372	GGGCACAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGAAGA	26748
4996	6034	CCCCCAU A ACAGUACU	8373	AGUACUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGGG	26749
5002	6028	AUAACAGU A CUCAUCAC	8374	GUGAUGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUUAU	26750
5005	6025	ACAGUACU C AUCACCAA	8375	UUGGUGAU CUGAUGAG	GCCGUUAGGC	CGAA AGUACUGU	26751
5008	6022	GUACUCAU C ACCAACUU	8376	AAGUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAGUAC	26752
5016	6014	CACCAACU U GCGACGGA	8377	UCCGUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGUUGGUG	26753
5026	6004	CGACGGAU U UCUACCGA	8378	UCGGUAGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCGUCG	26754
5027	6003	GACGGAU U CUACCGAU	8379	AUCGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCCGUC	26755
5028	6002	ACGGAUUU C UACCGAUA	8380	UAUCGGUA CUGAUGAG	GCCGUUAGGC	CGAA AAAUCCGU	26756
5030	6000	GGAUUUCU A CCGAUACG	8381	CGUAUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAUCC	26757
5036	5994	CUACCGAU A CGUCCACG	8382	CGUGGACG CUGAUGAG	GCCGUUAGGC	CGAA AUCGGUAG	26758
5040	5990	CGAUACGU C CACGUCUC	8383	GAGACGUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUAUCC	26759
5046	5984	GUCCACGU C UCUGGGCG	8384	CGCCGAGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGGAC	26760
5048	5982	CCACGUCU C UGGGCGGC	8385	GCCGCCCA CUGAUGAG	GCCGUUAGGC	CGAA AGACGUGG	26761
5060	5970	GCGGCACU A GCUGCUGU	8386	ACAGCAGC CUGAUGAG	GCCGUUAGGC	CGAA AGUGCCGC	26762
5069	5961	GCUGCUGU C ACUGCAGA	8387	UCUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCAGC	26763
5082	5948	CAGAUUGU U CUCCCAGG	8388	CCUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCUG	26764
5083	5947	AGAUGGUU C UCCCAGGA	8389	UCCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AACCAUCU	26765
5085	5945	AUGGUUCU C CCAGGAUC	8390	GAUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAACCAU	26766
5093	5937	CCCAGGAU C ACUCUCCC	8391	GGGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCUGGG	26767
5097	5933	GGAUACAU C UCCCUUCU	8392	AGAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUCC	26768
5099	5931	AUCACUCU C CCUUCUCC	8393	GGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGAU	26769
5103	5927	CUCUCCCU U UCCCUUCU	8394	AGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGAGAG	26770
5104	5926	UCUCCCUU C UCCUUCUG	8395	CAGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGAGA	26771
5106	5924	UCCCUUCU C CUUCUGUU	8396	AACAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGGA	26772
5109	5921	CUUCUCCU U CUGUUAUG	8397	CAUAACAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAG	26773
5110	5920	UUCUCCUU C UGUUAUGA	8398	UCAUAACA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGAA	26774
5114	5916	CCUUCUGU U AUGAUGGU	8399	ACCAUCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAGG	26775
5115	5915	CUUCUGUU A UGAUGGUU	8400	AACCAACA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAAG	26776
5123	5907	AUGAUGGU U GGUUACAC	8401	GUGAAACC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCAU	26777
5127	5903	UGGUUGGU U UCACACUC	8402	GAGUGUGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCA	26778
5128	5902	GGUUGGUU U CACACUCU	8403	AGAGUGUG CUGAUGAG	GCCGUUAGGC	CGAA AACCAACC	26779
5129	5901	GUUGGUUU C ACACUCUU	8404	AAGAGUGU CUGAUGAG	GCCGUUAGGC	CGAA AAACCAAC	26780
5135	5895	UUCACACU C UUCCGGCU	8405	AGCCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGUGAA	26781
5137	5893	CACACUCU U CCGGUCGU	8406	ACAGCCGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGUGUG	26782
5138	5892	ACACUCUU C CGGCUGUC	8407	GACAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AAGAGUGU	26783
5146	5884	CCGGCUGU C AAUCACCC	8408	GGGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCGG	26784
5150	5880	CUGUCAAU C ACCCUGCU	8409	AGCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGACAG	26785
5159	5871	ACCCUGCU C GCCUUGAA	8410	UUCAAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGGUU	26786
5164	5866	GCUCGCCU U GAAGUUAG	8411	CUAACUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGCGAGC	26787
5170	5860	CUUGAAGU U AGCCCCCA	8412	UGGGGGCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCAAG	26788
5171	5859	UUGAAGUU A GCCCCCAU	8413	AUGGGGGC CUGAUGAG	GCCGUUAGGC	CGAA AACUCAA	26789
5180	5850	GCCCCCAU U UCAGAUAU	8414	AUAUCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGGGGC	26790
5181	5849	CCCCCAU U CAGAUUUG	8415	CAUAUCUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGGGGG	26791
5182	5848	CCCCAUU C AGAUUUGU	8416	ACAUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGGGG	26792
5187	5843	UUUCAGAU A UGUCUGUU	8417	AACAGACA CUGAUGAG	GCCGUUAGGC	CGAA AUCUGAAA	26793
5191	5839	AGAUUUGU C UGUUGUGA	8418	UCACAACA CUGAUGAG	GCCGUUAGGC	CGAA ACAUAUCU	26794
5195	5835	AUGUCUGU U GUGAUUAC	8419	GUUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACAGACAU	26795
5201	5829	GUUGUGAU A ACAAAGUC	8420	GACUUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCACAAC	26796
5209	5821	AACAAAGU C CCAUUCAU	8421	AUGAUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACTUUGUU	26797

5215	5815	GUCCCAAU C AUCGUUCU	8422	AGAACGAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGAC	26798
5218	5812	CCAAUCAU C GUUCUAC	8423	GUAAGAAC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUUGG	26799
5221	5809	AUCAUCGU U CUUACAUI	8424	AAUGUAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAUGAU	26800
5222	5808	UCAUCGUU C UUACAUIU	8425	AAAUGUAA CUGAUGAG	GCCGUUAGGC	CGAA AACGAUGA	26801
5224	5806	AUCGUUCU U ACAUUUUG	8426	CAAAAUGU CUGAUGAG	GCCGUUAGGC	CGAA AGAACGAU	26802
5225	5805	UCGUUCU A CAUUUUGG	8427	CCAAAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACGA	26803
5229	5801	UCUUACA U UUGGGUAC	8428	GUACCCA CUGAUGAG	GCCGUUAGGC	CGAA AUGUAAGA	26804
5230	5800	CUUACAUI U UGGGUACU	8429	AGUACCCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGUAAG	26805
5231	5799	UUACAUIU U GGGUACUC	8430	GAGUACCC CUGAUGAG	GCCGUUAGGC	CGAA AAAUGUAA	26806
5236	5794	UUUUGGGU A CUCCGUCU	8431	AGACGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACCCAAAA	26807
5239	5791	UGGGUACU C CGUCUCGU	8432	ACGAGACG CUGAUGAG	GCCGUUAGGC	CGAA AGUACCCA	26808
5243	5787	UACUCCGU C UCGUACGA	8433	UCGUACGA CUGAUGAG	GCCGUUAGGC	CGAA ACGGAGUA	26809
5245	5785	CUCCGUCU C GUACGACU	8434	AGUCGUAC CUGAUGAG	GCCGUUAGGC	CGAA AGACGGAG	26810
5248	5782	CGUCUCGU A CGACUUUC	8435	GAAAGUCG CUGAUGAG	GCCGUUAGGC	CGAA ACGAGACG	26811
5254	5776	GUACGACU U UCUGUACA	8436	UGAACAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGUAC	26812
5255	5775	UACGACUU U CUGUCAA	8437	UUGAACAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUCGUA	26813
5256	5774	ACGACUUU C UGUUCAU	8438	AUUGAACA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUCGU	26814
5260	5770	CUUUCUGU U CAAUUGGA	8439	UCCAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAAG	26815
5261	5769	UUUCUGUU C AAUUGGAC	8440	GUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA AACAGAAA	26816
5265	5765	UGUUCAAU U GGACUACU	8441	AGUAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUGAACA	26817
5271	5759	AUUGGACU A CUUUCUUU	8442	AAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAU	26818
5274	5756	GGACUACU U UCUIUCCA	8443	UGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUCC	26819
5275	5755	GACUACUU U CUUUCAG	8444	CUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGUAGUC	26820
5276	5754	ACUACUUU C UUUCAGC	8445	GCUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGUAGU	26821
5278	5752	UACUUUCU U UCCAGCAC	8446	GUGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGUA	26822
5279	5751	ACUUUCUU U CCAGCACG	8447	CGUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGU	26823
5280	5750	CUUUCUUU C CAGCACGU	8448	ACGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAG	26824
5289	5741	CAGCACGU U GUAGGCAA	8449	UUGCCUAC CUGAUGAG	GCCGUUAGGC	CGAA ACGUGCUG	26825
5292	5738	CACGUUGU A GGCAAAGG	8450	CCUUUGCC CUGAUGAG	GCCGUUAGGC	CGAA ACAACGUG	26826
5306	5724	AGGGCAAU C UCAUCCCC	8451	GGGAAUGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGCCCU	26827
5308	5722	GGCAAUCU C AUUCCCCA	8452	UGGGGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGAUUGCC	26828
5311	5719	AAUCUCAU U CCCCAUCU	8453	AGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGAUU	26829
5312	5718	AUCUCAU C CCCAUCU	8454	AAGAUGGG CUGAUGAG	GCCGUUAGGC	CGAA AAUGAGAU	26830
5318	5712	UUCCCCAU C UUGACACU	8455	AGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGAA	26831
5320	5710	CCCCAUCU U GACACUAG	8456	CUAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGGG	26832
5327	5703	UUGACACU A GGCACAAA	8457	UUUGUGCC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCA	26833
5345	5685	CAAACCGU C UUCCCGGU	8458	ACCGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUUUG	26834
5347	5683	AACCGUCU U CCCGGUGU	8459	ACACCGGG CUGAUGAG	GCCGUUAGGC	CGAA AGACGGUU	26835
5348	5682	ACCGUCUU C CCGGUGUA	8460	UACACCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACGGU	26836
5356	5674	CCCGGUGU A UUCUGUGA	8461	UCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACACCGGG	26837
5358	5672	CGGUGUAU U CUGUGAUC	8462	GAUCACAG CUGAUGAG	GCCGUUAGGC	CGAA AUACACCG	26838
5359	5671	GGUGUAU C UGUGAUCC	8463	GGAUCACA CUGAUGAG	GCCGUUAGGC	CGAA AAUACACC	26839
5366	5664	UCUGUGAU C CAUUCGUA	8464	UACGAAUG CUGAUGAG	GCCGUUAGGC	CGAA AUACACAGA	26840
5370	5660	UGAUCCA U CGUAUCCA	8465	UGGAUACG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUCA	26841
5371	5659	GAUCCA U C GUAUCCAG	8466	CUGGAUAC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGAUC	26842
5374	5656	CCAUUCGU A UCCAGAGU	8467	ACUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA ACGAAUGG	26843
5376	5654	AUUCGUAU C CAGAGUUC	8468	GAACUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUACGAAU	26844
5383	5647	UCCAGAGU U CCAAGCUC	8469	GAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUCUGGA	26845
5384	5646	CCAGAGUU C CAAGCUCG	8470	CGAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AACUCUGG	26846
5391	5639	UCCAAGCU C GAUCCGGG	8471	CCCGGAUC CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGA	26847
5395	5635	AGCUCGAU C CGGGAUCU	8472	AGAUCCG CUGAUGAG	GCCGUUAGGC	CGAA AUUCGAGU	26848
5402	5628	UCCGGGAU C UCAGUCUG	8473	CAGACUGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCCGGA	26849
5404	5626	CGGGAUCU C AGUCUGUA	8474	UACAGACU CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCCG	26850
5408	5622	AUCUCAGU C UGUAAGUC	8475	GACUACA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAU	26851
5412	5618	CAGUCUGU A AGUCGGAA	8476	UUCCGACU CUGAUGAG	GCCGUUAGGC	CGAA ACAGACUG	26852
5416	5614	CUGUAAGU C GGAAAUUG	8477	CAAUUCC CUGAUGAG	GCCGUUAGGC	CGAA ACUACAG	26853
5423	5607	UCGGAAU U GGUGAAU	8478	AAUUCACC CUGAUGAG	GCCGUUAGGC	CGAA AUUUCCGA	26854
5431	5599	UGGUGAAU U GGACUCUG	8479	CAGAGUCC CUGAUGAG	GCCGUUAGGC	CGAA AUUCACCA	26855
5437	5593	AUUGGACU C UGGGAUUG	8480	CAUUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGUCCAAU	26856
5449	5581	GAAUGGAU C UGAAGUGC	8481	GCACUUA CUGAUGAG	GCCGUUAGGC	CGAA AUCCAUC	26857
5474	5556	GUGGCUGU C AUGAAUUA	8482	AUAUUAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCAC	26858
5481	5549	UCAUGAAU A UUGCCGCC	8483	GGCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AUUCAUGA	26859

Table VIII

5483	5547	AUGAAUUAU U GCCGCCGC	8484	GCGGCCGC CUGAUGAG	GCCGUUAGGC	CGAA	AUAUUCAU	26860
5494	5536	CGCCGCCU C CCCUAGCU	8485	AGCUAGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCGGCG	26861
5499	5531	CCUCCCCU A GCUCGACC	8486	GGUCGAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGGGGAGG	26862
5503	5527	CCCUAGCU C GACCUUUG	8487	CAAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA	AGCUAGGG	26863
5509	5521	CUCGACCU U UGUGGAAA	8488	UUUCCACA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCGAG	26864
5510	5520	UCGACCUU U GUGGAAAU	8489	AUUUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	AAGGUCGA	26865
5521	5509	GGAAAUUG A ACCUCUUG	8490	CAAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA	ACAUUUCC	26866
5526	5504	UGUAACCU C UUGCUGCA	8491	UGCAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUUACA	26867
5528	5502	UAACCUCU U GCUGCAAU	8492	AUUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGUUA	26868
5540	5490	GCAAUGCU A GCUGGGUC	8493	GACCCAGC CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUUGC	26869
5548	5482	AGCUGGGU C GGUGAAAU	8494	AUUUCCAC CUGAUGAG	GCCGUUAGGC	CGAA	ACCCAGCU	26870
5563	5467	AUGAGCCU C AUCCAUCA	8495	UGAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	AGGCUCAU	26871
5566	5464	AGCCUCAU C CAUCACGA	8496	UCGUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGAGGCU	26872
5570	5460	UCAUCCAU C ACGAACAG	8497	CUGUUCGU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAUGA	26873
5581	5449	GAACAGGU U GUAGUUCG	8498	CGAACUAC CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGUUC	26874
5584	5446	CAGGUUGU A GUUCGGCA	8499	UGCCGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACAACCCUG	26875
5587	5443	GUUGUAGU U CGGCACCC	8500	GGGUGCCG CUGAUGAG	GCCGUUAGGC	CGAA	ACAACAAC	26876
5588	5442	UUGUAGUU C GGCACCCU	8501	AGGGUGCC CUGAUGAG	GCCGUUAGGC	CGAA	AACUACAA	26877
5609	5421	GGAGACAU C AGCCUGUG	8502	CACAGGCU CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCUCC	26878
5627	5403	GUGAGGGU A GCAUGACA	8503	UGUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ACCCUCAC	26879
5644	5386	CAUGACAU C AACAAUCU	8504	AGAUUGUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCAUG	26880
5651	5379	UCAACAAU C UCAUUUCC	8505	GGAAAUUA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGUUGA	26881
5653	5377	AACAAUCU C AUUUCCAU	8506	AUGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGUUU	26882
5656	5374	AAUCUCAU U UCCAUAUA	8507	AUAAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGAGAUU	26883
5657	5373	AUCUCAUU U CCAUAUUG	8508	CAUAAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGAUU	26884
5658	5372	UCUCAUUU C CAUUAUUG	8509	ACAUAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAUAGAGA	26885
5662	5368	AUUUCCAU U AUGUUCUC	8510	GAGAACAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAAAU	26886
5663	5367	UUUCCAUU A UGUUCUCU	8511	AGAGAACA CUGAUGAG	GCCGUUAGGC	CGAA	AAUGGAAA	26887
5667	5363	CAUUAUGU U CUCUGGGC	8512	GCCAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAUAUUG	26888
5668	5362	AUUUAUGU C UCUGGGCA	8513	UGCCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AACAUAUA	26889
5670	5360	UAUGUUCU C UGGGACAU	8514	AGUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAACAUA	26890
5687	5343	GCGGAUGU C UGGUACCG	8515	CGGUACCA CUGAUGAG	GCCGUUAGGC	CGAA	ACAUCCCG	26891
5692	5338	UGUCUGGU A CCGGAUGG	8516	CCAUCCGG CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGACA	26892
5706	5324	UGGGCAGU C CUCUCAGU	8517	ACUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACGACCCA	26893
5709	5321	GCAGUCCU C UCAGUGCU	8518	AGCACUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGACUGC	26894
5711	5319	AGUCCUCU C AGUGCUUC	8519	GAAGCACU CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGACU	26895
5718	5312	UCAGUGCU U CAGCCAUC	8520	GAUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA	AGCACUGA	26896
5719	5311	CAGUGCUU C AGCCAUCU	8521	AGAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA	AAGCACUG	26897
5726	5304	UCAGCCAU C UCAGCAGC	8522	GCUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGGCUGA	26898
5728	5302	AGCCAUCU C AGCAGCCA	8523	UGGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	AGAUGGCU	26899
5747	5283	ACCCUGGU U GGUGCUAG	8524	CUAGCACC CUGAUGAG	GCCGUUAGGC	CGAA	ACCAGGGU	26900
5754	5276	UUGGUGCU A GCACGGCU	8525	AGCCGUGC CUGAUGAG	GCCGUUAGGC	CGAA	AGCACCAG	26901
5765	5265	ACGGCUGU U CUCAGUCU	8526	AGACUGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAGCCGU	26902
5766	5264	CGGCGUUG C UCAGUCUU	8527	AAGACUGA CUGAUGAG	GCCGUUAGGC	CGAA	AACAGCCG	26903
5768	5262	GCUGUUCU C AGUCUUCU	8528	AGAAGACU CUGAUGAG	GCCGUUAGGC	CGAA	AGAACAGC	26904
5772	5258	UUCUCAGU C UUCUGUUU	8529	AAACAGAA CUGAUGAG	GCCGUUAGGC	CGAA	ACUGAGAA	26905
5774	5256	CUCAGUCU U CUGUUUAU	8530	AUAAACAG CUGAUGAG	GCCGUUAGGC	CGAA	AGACUGAG	26906
5775	5255	UCAGUCUU C UGUUAUUG	8531	CAUAAACA CUGAUGAG	GCCGUUAGGC	CGAA	AAGACUGA	26907
5779	5251	UCUUCUGU U UAUGGCCU	8532	AGGCCAUU CUGAUGAG	GCCGUUAGGC	CGAA	ACAGAAGA	26908
5780	5250	CUUCUGUU U AUGGCCUC	8533	GAGGCCAU CUGAUGAG	GCCGUUAGGC	CGAA	AACAGAAG	26909
5781	5249	UUCUGUUU A UGGCCUCU	8534	AGAGGCCA CUGAUGAG	GCCGUUAGGC	CGAA	AAACAGAA	26910
5788	5242	UAUGGCCU C UUUGAUGA	8535	UCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCAUA	26911
5790	5240	UGGCCUCU U UGAUGAUC	8536	GAUCAUCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGCCA	26912
5791	5239	GGCCUCUU U GAUGAUCU	8537	AGAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGGCC	26913
5798	5232	UUGAUGAU C UGUGGCAG	8538	CUGCCACA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUCA	26914
5810	5220	GGCAGAAU C CUCCUUGU	8539	ACAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUCUGCC	26915
5813	5217	AGAAUCCU C CUUGUUUU	8540	AAAACAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAUUCU	26916
5816	5214	AUCCUCCU U GUUUUACC	8541	GGUAAAC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGGAU	26917
5819	5211	CUCCUUGU U UUACCGGC	8542	GCCGGUAA CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGGAG	26918
5820	5210	UCCUUGUU U UACCGGCG	8543	CGCCGGUA CUGAUGAG	GCCGUUAGGC	CGAA	AACAAGGA	26919
5821	5209	CCUUGUUU U ACCGGCGC	8544	GCGCCGGU CUGAUGAG	GCCGUUAGGC	CGAA	AAACAAGG	26920
5822	5208	CUUGUUUU A CCGGCGCC	8545	GGCGCCGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAACAAG	26921

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5842	5188	AUGGAGAU C CAGUACAG	8546	CUGUACUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUCCAU	26922
5847	5183	GAUCCAGU A CAGUGAUC	8547	GAUCACUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGGAUC	26923
5855	5175	ACAGUGAU C UGUUUUUU	8548	AAAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AUCACUGU	26924
5859	5171	UGAUCUGU U UUUUCCUC	8549	GAGGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUCA	26925
5860	5170	GAUCUGUU U UUUCCUCA	8550	UGAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAUC	26926
5861	5169	AUCUGUUU U UUUCCUCAG	8551	CUGAGGAA CUGAUGAG	GCCGUUAGGC	CGAA AAACAGAU	26927
5862	5168	UCUGUUUU U UCCUCAGC	8552	GCUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGA	26928
5863	5167	CUGUUUUU U CCUCAGCA	8553	UGCUGAGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACAG	26929
5864	5166	UGUUUUUU C CUCAGCAU	8554	AUGCUGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACA	26930
5867	5163	UUUUUCCU C AGCAUCUC	8555	GAGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AGGAAAAA	26931
5873	5157	CUCAGCAU C UCAGGUUC	8556	GAACCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAG	26932
5875	5155	CAGCAUCU C AGGUUCGA	8557	UCGAACCU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCUG	26933
5880	5150	UCUCAGGU U CGAAUCCG	8558	CGGAUUCG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGAGA	26934
5881	5149	CUCAGGUU C GAAUCCGG	8559	CCGAUUC CUGAUGAG	GCCGUUAGGC	CGAA AACCUGAG	26935
5886	5144	GUUCGAAU C CGGCUGGG	8560	CCCAGCCG CUGAUGAG	GCCGUUAGGC	CGAA AUUCGAAC	26936
5897	5133	GCUGGGAU U GGCUCAUC	8561	GAUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA AUCCCAGC	26937
5902	5128	GAUUGGCU C AUCCAUC	8562	GGAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AGCCAAUC	26938
5905	5125	UGGCUCAU C CAUCCUUU	8563	AAAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCCA	26939
5909	5121	UCAUCCAU C CUUUCACC	8564	GGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGA	26940
5912	5118	UCCAUCU U UCACCCUG	8565	CAGGGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAUGGA	26941
5913	5117	CCAUCUUU U CACCCUGC	8566	GCAGGGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAUGG	26942
5914	5116	CAUCCUUU C ACCCUGCA	8567	UGCAGGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAUG	26943
5925	5105	CCUGCACU A UCGCGCUU	8568	AAGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAGG	26944
5927	5103	UGCACUUA C GCGCUUAU	8569	AUAAGCGC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGCA	26945
5933	5097	AUCGCGCU U AUGUAUGA	8570	UCAUACAU CUGAUGAG	GCCGUUAGGC	CGAA AGCGCGAU	26946
5934	5096	GAUUGGCU A UGUUAUGAG	8571	CUCAUACA CUGAUGAG	GCCGUUAGGC	CGAA AACGCGCA	26947
5938	5092	GCUAUUGU A UGAGCCGU	8572	ACGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA ACAUAAGC	26948
5947	5083	UGAGCCGU U GGGCAUUA	8573	UAAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA ACGGCUCA	26949
5954	5076	UUGGGCAU U AUGACUCC	8574	GGAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCAA	26950
5955	5075	UGGGCAU U UGACUCCA	8575	UGGAGUCA CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCA	26951
5961	5069	UUAUGACU C CAUUGCCA	8576	UGGCAAUG CUGAUGAG	GCCGUUAGGC	CGAA AGUCAUAA	26952
5965	5065	GACUCCAU U GCCAUAAA	8577	UUUAUGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGUC	26953
5971	5059	AUUGCCAU A AAGCCCAA	8578	UUGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGCAAU	26954
5981	5049	AGCCCAU C ACAUACC	8579	GGUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGGCU	26955
5986	5044	AUAUACA C ACCGUUUU	8580	AAAACGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAUU	26956
5992	5038	AUCACCGU U UUUGUCCA	8581	UGGACAAA CUGAUGAG	GCCGUUAGGC	CGAA ACGGUGAU	26957
5993	5037	UCACCGUU U UUGUCCAC	8582	GUGGACAA CUGAUGAG	GCCGUUAGGC	CGAA AACGGUGA	26958
5994	5036	CACCGUUU U UGUCCACU	8583	AGUGGACA CUGAUGAG	GCCGUUAGGC	CGAA AAACGGUG	26959
5995	5035	ACCGUUUU U GUCCACUA	8584	UAGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGGU	26960
5998	5032	GUUUUUGU C CACUAUUG	8585	CAUAUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAC	26961
6003	5027	UGUCCACU A UUGGUGAG	8586	CUCACCAA CUGAUGAG	GCCGUUAGGC	CGAA AGUGGACA	26962
6005	5025	UCCACUUA U GGUGAGCC	8587	GGCUCACC CUGAUGAG	GCCGUUAGGC	CGAA AUAGUGGA	26963
6020	5010	CCUGAUGU U CCAGUGGG	8588	CCCACUGG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAGG	26964
6021	5009	CUGAUGUU C CAGUGGGG	8589	CCCACUG CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAG	26965
6034	4996	GGGGAAGU C CAAAGUCA	8590	UGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUUCCCC	26966
6041	4989	UCCAAAGU C ACGGCCCC	8591	GGGGCCGU CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGGA	26967
6053	4977	GCCCCGAU U UCUCUUC	8592	GAAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AUCGGGGC	26968
6054	4976	CCCCGAU U CUCCUUA	8593	UGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAUCGGGG	26969
6055	4975	CCCCGAU C UCCUUCAG	8594	CUGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA AAUCGGG	26970
6057	4973	CGAUUUCU C CUUCAGGU	8595	ACCUGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAUCC	26971
6060	4970	UUUCUCCU U CAGGUGUU	8596	AACACCUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGAAA	26972
6061	4969	UUCUCCU C AGGUGUUU	8597	AAACACCU CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGAA	26973
6068	4962	UCAGGUGU U UUGAACAC	8598	GUGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA AACACUGA	26974
6069	4961	CAGGUGUU U UGAACACC	8599	GGUGUUA CUGAUGAG	GCCGUUAGGC	CGAA AACACCUG	26975
6070	4960	AGGUGUUU U GAACACCC	8600	GGGUGUUC CUGAUGAG	GCCGUUAGGC	CGAA AAACACCU	26976
6084	4946	CCCUGGU U UCGUCUGG	8601	CCAGACGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGGG	26977
6085	4945	CCCUGGUU U CGUCUGGA	8602	UCCAGACG CUGAUGAG	GCCGUUAGGC	CGAA AACAGGG	26978
6086	4944	CCUGGUUU C GUCUGGAC	8603	GUCCAGAC CUGAUGAG	GCCGUUAGGC	CGAA AAACAGG	26979
6089	4941	GGUUUCGU C UGGACGUU	8604	AACGUCCA CUGAUGAG	GCCGUUAGGC	CGAA ACGAAACC	26980
6097	4933	CUGGACGU U CUUAACGU	8605	ACGUUAAG CUGAUGAG	GCCGUUAGGC	CGAA ACGUCCAG	26981
6098	4932	UGGACGUU C UUAACGUU	8606	ACGUUAAG CUGAUGAG	GCCGUUAGGC	CGAA AACGUCCA	26982
6100	4930	GACGUUCU U AACGUUCU	8607	AGAACGUU CUGAUGAG	GCCGUUAGGC	CGAA AGAACGUC	26983

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6101	4929	ACGUUCUU A ACGUUCUU	8608	AAGAACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAACGU	26984
6106	4924	CUUAAACGU U CUUGCCAG	8609	CUGGCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGUUAAG	26985
6107	4923	UUAACGUU C UUGCCAGG	8610	CCUGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGUUAA	26986
6109	4921	AACGUUCU U GCCAGGUU	8611	AACCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAACGUU	26987
6117	4913	UGCCAGGU U CCACCACA	8612	UGUGGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUGGCA	26988
6118	4912	GCCAGGUU C CACCACAA	8613	UUGUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGUGGC	26989
6128	4902	ACCACAAU C AUCUGCAC	8614	GUGCAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGUGGU	26990
6131	4899	ACAAUCAU C UGCACCUC	8615	GAGGUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAUUGU	26991
6139	4891	CUGCACCUC C AUCCUGCC	8616	GGCAGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGCAG	26992
6142	4888	CACCUCAU C CUGCCCGU	8617	ACGGGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAGGUG	26993
6151	4879	CUGCCCGU U CCACUUGU	8618	ACAAGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGGCAG	26994
6152	4878	UGCCCGGU C CACUUGUG	8619	CACAAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGGGCA	26995
6157	4873	GUUCCACU U GUGCUGCA	8620	UGCAGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGAAC	26996
6168	4862	GCUGCAAU U UCCAGGGU	8621	ACCCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGCAGC	26997
6169	4861	CUGCAAUU U CCAGGGUC	8622	GACCCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGCAG	26998
6170	4860	UGCAAUUU C CAGGGUCC	8623	GGACCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGCA	26999
6177	4853	UCCAGGGU C CUCCGUAA	8624	UUACGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCUGGA	27000
6180	4850	AGGGUCCU C CGUAACAA	8625	UUGUUACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGACCCU	27001
6184	4846	UCCUCCGU A ACAAAGUC	8626	GACUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGGAGGA	27002
6192	4838	AACAAAGU C GAUCCUCC	8627	GGAGGAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUUGUUU	27003
6196	4834	AAGUCGAU C CUCCUUGA	8628	UCAAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCGACUU	27004
6199	4831	UCGAUCCU C CUUGACAC	8629	GUGUCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAUCGA	27005
6202	4828	AUCCUCCU U GACACUGC	8630	GCAGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGGAU	27006
6217	4813	GCCCAAGU A UGGGUCCA	8631	UGGAGGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUGGGGC	27007
6223	4807	GUUUGGGU C CAGGCGGC	8632	GCCGCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCAUAC	27008
6235	4795	GCGGCCCU C UCCGCUCA	8633	UGAGCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGCCGC	27009
6237	4793	GGCCUCU C CGCUCAUC	8634	GAUGAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGGGCC	27010
6242	4788	UCUCCGCU C AUCAAAGC	8635	GCUUUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGGAGA	27011
6245	4785	CCGCUCAU C AAAGCGGC	8636	GCCGCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGAGCGG	27012
6255	4775	AAGCGGCU C CUUUUGUU	8637	AACAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCGCUU	27013
6258	4772	CGGCUCU U UGUUGUA	8638	UACAACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGCCG	27014
6259	4771	GGUCUUU U UGUUGUAU	8639	AUAACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGAGCC	27015
6260	4770	GCUCUUU U GUUGUAUG	8640	CAUACAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGAGGC	27016
6263	4767	CCUUUUGU U GUAUGCCA	8641	UGGCAUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAAAAG	27017
6266	4764	UUUGUUGU A UGCCAAAG	8642	CUUUGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACAAA	27018
6291	4739	AAACACCU U CAACCAUC	8643	GAUGGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUGUUU	27019
6292	4738	AACACCUU C AACCAUCA	8644	UGAUGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGUGUU	27020
6299	4731	UCAACCAU C ACGCCCGC	8645	GCGGGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGUUGA	27021
6309	4721	CGCCCGCU C CUGCUUGA	8646	UCAAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCGGGCG	27022
6315	4715	CUCCUGCU U GAUAACUG	8647	CAGUUAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGGAG	27023
6319	4711	UGCUGAU A ACUGCCGA	8648	UCGGCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAAGCA	27024
6341	4689	CCACAGU C AUGAUCCU	8649	AGGAUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCUGG	27025
6347	4683	GUCAUGAU C CUGUAGAC	8650	GUCUACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAUGAC	27026
6352	4678	GAUCCUGU A GACGCCGG	8651	CCGGCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGGAUC	27027
6365	4665	CCGGUGGU C GUGUCCCC	8652	GGGGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACCGG	27028
6370	4660	GGUCGUGU C CCCCUUUU	8653	AAAAGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACGACC	27029
6376	4654	GUCCCCCU U UUUGUACU	8654	AGUACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGGGAC	27030
6377	4653	UCCCCCUU U UUGUACUC	8655	GAGUACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGGGGA	27031
6378	4652	CCCCUUU U UGUACUCC	8656	GGAGUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAGGGGG	27032
6379	4651	CCCCUUU U GUACUCCU	8657	AGGAGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAAGGGG	27033
6382	4648	CUUUUUGU A CUCCUUUG	8658	CAAAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAAAAAG	27034
6385	4645	UUUGUACU C CUUUGGUG	8659	CACCAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUACAAA	27035
6388	4642	GUACUCCU U UGGUGAGG	8660	CCUCACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGUAC	27036
6389	4641	UACUCCUU U GGUGAGGG	8661	CCCUCACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGAGUA	27037
6403	4627	GGGAGUGU C CCACAACA	8662	UGUUGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUCCC	27038
6417	4613	ACACGCCU C CUCUCUUU	8663	AAAGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCGUGU	27039
6420	4610	CGCCUCCU C UCUUUGUG	8664	CACAAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGGCG	27040
6422	4608	CCUCCUCU C UUUGUGUA	8665	UACACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGGAGG	27041
6424	4606	UCCUCUCU U UGUGUAUU	8666	AAUACACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGAGGA	27042
6425	4605	CCUCUCUU U GUGUAUUG	8667	CAAUACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAGAGG	27043
6430	4600	CUUUGUGU A UUGGAGAG	8668	CUCUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACAAAG	27044
6432	4598	UUGUGUAU U GGAGAGUU	8669	AACUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUACACAA	27045

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6440	4590	UGGAGAGU U AUCCAAAA	8670	UUUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACUCUCCA	27046
6441	4589	GGAGAGUU A UCCAAAAU	8671	AUUUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AACUCUCC	27047
6443	4587	AGAGUUUAU C CAAAAUCC	8672	GGAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUAACUCU	27048
6450	4580	UCCAAAAU C CAACUACU	8673	AGUAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUGGA	27049
6456	4574	AUCCAACU A CUGAGGGC	8674	GCCUCAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUUGAU	27050
6470	4560	GGCAAGAU U GCCCAGGG	8675	CCCUGGGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCUUGCC	27051
6484	4546	GGGGUGU A CGCACUAA	8676	UUAGUGCG CUGAUGAG	GCCGUUAGGC	CGAA	ACACCCCC	27052
6491	4539	UACGCACU A AUCGCGAG	8677	CUCGCGAU CUGAUGAG	GCCGUUAGGC	CGAA	AGUGCGUA	27053
6494	4536	GCACUAAU C GCAGACA	8678	UGUCUCGC CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGUGC	27054
6509	4521	CAGACCAU U CUGAGCAU	8679	AUGCUCAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUCUG	27055
6510	4520	AGACCAUU C UGAGCAUC	8680	GAUGCUCU CUGAUGAG	GCCGUUAGGC	CGAA	AAUGGUCU	27056
6518	4512	CUGAGCAU C CAUAUCUU	8681	AAGAU AUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGCUCAG	27057
6522	4508	GCAUCCA U UCUCCAA	8682	UUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAUGC	27058
6524	4506	AUCCAUAU C UUCAAGG	8683	CCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUAUGGAU	27059
6526	4504	CCAUAUCU U CCAAGGUG	8684	CACCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAUAUGG	27060
6527	4503	CAUAUCUU C CAAGGUGC	8685	GCACCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAUAUG	27061
6537	4493	AAGGUGCU C CUGGAUCA	8686	UGAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA	AGCACC UU	27062
6544	4486	UCCUGGAU C AUUCAUGA	8687	UCAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA	AUCCAGGA	27063
6547	4483	UGGAUCAU U CAUGAGCU	8688	AGCUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUCCA	27064
6548	4482	GGAUCAUU C AUGAGCUG	8689	CAGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA	AAUGAUCC	27065
6562	4468	CUGGAAGU U UCCAUCAU	8690	AUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	ACUUC CAG	27066
6563	4467	UGGAAGUU U CCAUCAUC	8691	GAUGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AACUCCA	27067
6564	4466	GGAAAGUU C CAUCAUCA	8692	UGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	AAACUCC	27068
6568	4462	GUUCCA U C AUCAUCA	8693	UUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAAAC	27069
6571	4459	UCCAUCAU C AUCAAGCC	8694	GGCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUGGA	27070
6574	4456	AUCAUCAU C AAGCCGCA	8695	UAGGCGUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUGAU	27071
6586	4444	CCGCACAU C AACUCUUU	8696	AAAGAGUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGCGG	27072
6591	4439	CAUCAACU C UUUCGCUC	8697	GAGCGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGAUG	27073
6593	4437	UCAACUCU U UCGCUCGA	8698	UCGAGCGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUUGA	27074
6594	4436	CAACUCUU U CGCUCGAG	8699	CUCGAGCG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGUUG	27075
6595	4435	AAUCUCUU C GCUCGAGC	8700	GCUCGAGC CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGUU	27076
6599	4431	CUUUCGCU C GAGCCUGU	8701	ACAGGCUC CUGAUGAG	GCCGUUAGGC	CGAA	AGCGAAAG	27077
6608	4422	GAGCCUGU A AUUUCUGC	8702	GCAGAAAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAGGCUC	27078
6611	4419	CCUGUAAU U UCUGCAUC	8703	GAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUUACAGG	27079
6612	4418	CUGUAAUU U CUGCAUCA	8704	UUGUCGAG CUGAUGAG	GCCGUUAGGC	CGAA	AAUACAG	27080
6613	4417	UGUAAUUU C UGCAUCAC	8705	GUGAUGCA CUGAUGAG	GCCGUUAGGC	CGAA	AAAUACA	27081
6619	4411	UUCUGCAU C ACUUUCCC	8706	GGGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA	AUGCAGAA	27082
6623	4407	GCAUCACU U UCCAGGA	8707	UCCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGUGAUGC	27083
6624	4406	CAUCACUU U CCCAGGAA	8708	UUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGAUG	27084
6625	4405	AUCACUUU C CCAGGAAA	8709	UUUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAGUGAU	27085
6637	4393	GGAAAGUU C CGCCGUUC	8710	GAACGGCG CUGAUGAG	GCCGUUAGGC	CGAA	ACAUUCC	27086
6644	4386	UCCGCCGU U CUCUCAAU	8711	AUUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ACGGCGGA	27087
6645	4385	CCGCCGUU C UCUCAAUC	8712	GAUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA	AACGGCGG	27088
6647	4383	GCCGUUCU C UCAAUCCA	8713	UGGAUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGCGC	27089
6649	4381	CGUUCUCU C AAUCCACA	8714	UGUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA	AACGAACG	27090
6653	4377	CUCUCAAU C CACAUAUC	8715	GAUAUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AUUGAGAG	27091
6659	4371	AUCCAUAU A UCUGUUGA	8716	UCAACAGA CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGAU	27092
6661	4369	CCACAUAU C UGUUGAUU	8717	AAUCAACA CUGAUGAG	GCCGUUAGGC	CGAA	AUAUGUGG	27093
6665	4365	AUAUCUGU U GAUUUCCC	8718	GGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA	ACAGAUAU	27094
6669	4361	CUGUUGAU U UCCAGAAA	8719	UUUCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAACAG	27095
6670	4360	UGUUGAUU U CCCAGAAA	8720	UUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAUCAACA	27096
6671	4359	GUUGAUUU C CCAGAAA	8721	AUUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAUUCUGG	27097
6680	4350	CCAGAAAU C ACGAAAGC	8722	GCUUUCGU CUGAUGAG	GCCGUUAGGC	CGAA	AUUUCUGG	27098
6710	4320	CCCAGCAU A GUCAUUGG	8723	CCAAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	AUCGCGGG	27099
6713	4317	GCGAUAGU C AUUGGAAU	8724	AUUCCAAU CUGAUGAG	GCCGUUAGGC	CGAA	ACUAUCGC	27100
6716	4314	AUAGUCAU U GGAAUGGC	8725	GCCAUUCC CUGAUGAG	GCCGUUAGGC	CGAA	AUGACUAU	27101
6733	4297	CAUGGAGU C AAUGUCAA	8726	UUGACAUU CUGAUGAG	GCCGUUAGGC	CGAA	ACUCCAUG	27102
6739	4291	GUCAAUGU C AAGCUCUG	8727	CAGAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	ACAUUGAC	27103
6745	4285	GUCAAAGU C UGCCAGCC	8728	GGCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUUGAC	27104
6756	4274	CCAGCCCU C CGACGAUG	8729	CAUCGUCG CUGAUGAG	GCCGUUAGGC	CGAA	AGGGCUGG	27105
6773	4257	GCAAAACAU U AGGCCGAC	8730	GUCGGCCU CUGAUGAG	GCCGUUAGGC	CGAA	AUGUUUGC	27106
6774	4256	CAAACA U A GGCCGACA	8731	UGUCGGCC CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUUUG	27107

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6788	4242	ACAGCUGU C AUCACUUC	8732	GAAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGU	27108
6791	4239	GCUGUCAU C ACUUCAGU	8733	ACUGAAGU CUGAUGAG	GCCGUUAGGC	CGAA AUGACAGC	27109
6795	4235	UCAUCAU U CAGUUGCG	8734	CGCAACUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGAUGA	27110
6796	4234	CAUCACU C AGUUGCGG	8735	CCGCAACU CUGAUGAG	GCCGUUAGGC	CGAA AAGUGAUG	27111
6800	4230	ACUUCAGU U GCGGGCCA	8736	UGGCCCGC CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAGU	27112
6810	4220	CGGGCCAU C CGCGUUA	8737	UAAACGCG CUGAUGAG	GCCGUUAGGC	CGAA AUGGCCCG	27113
6816	4214	AUCCGCGU U UACGGUUG	8738	CAACCGUA CUGAUGAG	GCCGUUAGGC	CGAA ACGCGGAU	27114
6817	4213	UCCGCGU U ACGGUUGG	8739	CCAACCGU CUGAUGAG	GCCGUUAGGC	CGAA AACCGGGA	27115
6818	4212	CCGCGUUU A CGGUUGGG	8740	CCCAACCG CUGAUGAG	GCCGUUAGGC	CGAA AAACCGGG	27116
6823	4207	UUUACGGU U GGAUCAC	8741	GUGAUCCC CUGAUGAG	GCCGUUAGGC	CGAA ACCGUAAA	27117
6829	4201	GUUGGGAU C ACAUGCAA	8742	UUGCAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUCCCAAC	27118
6839	4191	CAUGCAAU C AGUCCAGC	8743	GCUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAUG	27119
6843	4187	CAAUCAGU C CAGCAGCA	8744	UGCUGCUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAUUG	27120
6857	4173	GCAAGGAU C AUGGGGUU	8745	AACCCCAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCUUGC	27121
6865	4165	CAUGGGGU U GAAAAGUC	8746	GACUUUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCCCAUG	27122
6873	4157	UGAAAAGU C CUGUUGAG	8747	CUCAACAG CUGAUGAG	GCCGUUAGGC	CGAA ACUUUUCA	27123
6878	4152	AGUCCUGU U GAGGCUAG	8748	CUAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA ACAGGACU	27124
6885	4145	UUGAGGCU A GAGCCAAG	8749	CUUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUCA	27125
6897	4133	CCAAGCAU A GCAGACUU	8750	AAGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGG	27126
6905	4125	AGCAGACU U GCUCUUU	8751	AAAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA AGUCUGCU	27127
6909	4121	GACUUGCU C CUUUCUU	8752	AAAGAAAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAGUC	27128
6912	4118	UUGCUCU U UCUUUUU	8753	AAAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCAA	27129
6913	4117	UGCUCUU U CUUUUUU	8754	CAAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGCA	27130
6914	4116	GCUCUUU C UUUUUUG	8755	GCAAAAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGGAGC	27131
6916	4114	UCCUUUCU U UUUUGCAG	8756	UCGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGGA	27132
6917	4113	CCUUUCU U UUGCAGC	8757	GCUGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAGG	27133
6918	4112	CUUUCUU U UUGCAGC	8758	AGCUGCAA CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAG	27134
6919	4111	UUUCUUU U UGCAGCUG	8759	CAGCUGCA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAAA	27135
6920	4110	UUCUUUU U GCAGCUGC	8760	GCAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAAAGAA	27136
6932	4098	GCUGCACU C CUUUCUC	8761	GAGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGCAGC	27137
6935	4095	GCACUCCU C UUCUCCU	8762	AGGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGC	27138
6937	4093	ACUCCUU C CUCCUGA	8763	UCAGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGAGU	27139
6938	4092	CUCCUCU C UCCUGAU	8764	AUCAGGGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGAG	27140
6940	4090	CCUCUUCU C CCUGAUA	8765	UGAUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AGAAGAGG	27141
6947	4083	UCCUGAU C AAGCUGCC	8766	GGCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA AUCAGGGA	27142
6957	4073	AGCUGCCU A UCCGACC	8767	GGUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGCAGCU	27143
6959	4071	CUGCCUUA U CCGACCAU	8768	AUGGUCGG CUGAUGAG	GCCGUUAGGC	CGAA AUAGGCAG	27144
6960	4070	UGCCUAU C CGACCAUC	8769	GAUGGUCG CUGAUGAG	GCCGUUAGGC	CGAA AAUAGGCA	27145
6968	4062	CCGACCAU C AACAGCAG	8770	CUGCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUCGG	27146
6978	4052	ACAGCAGU A UCCUGUAC	8771	GUACAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGCUGU	27147
6980	4050	AGCAGUAU C CUGUACAC	8772	GUGUACAG CUGAUGAG	GCCGUUAGGC	CGAA AUACUGCU	27148
6985	4045	UAUCCUGU A CACAUCCA	8773	UGGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGGAUA	27149
6991	4039	GUACACAU C CAGAUUCA	8774	UGAAUCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUAC	27150
6997	4033	AUCCAGAU U CAAGCAUC	8775	GAUGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUGGAU	27151
6998	4032	UCCAGAUU C AAGCAUCU	8776	AGAUGCUU CUGAUGAG	GCCGUUAGGC	CGAA AAUCUGGA	27152
7005	4025	UCAAGCAU C UCAGCCCG	8777	CGGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGA	27153
7007	4023	AAGCAUCU C AGCCCGGG	8778	CCCGGGCU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCUU	27154
7019	4011	CCGGGUGU U AGCAGGGC	8779	GCCCUGCU CUGAUGAG	GCCGUUAGGC	CGAA ACACCCGG	27155
7020	4010	CGGGUGUU A GCAGGGCU	8780	AGCCUGC CUGAUGAG	GCCGUUAGGC	CGAA AACACCCG	27156
7029	4001	GCAGGGCU A GCAGCGGA	8781	UCCGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCCUUGC	27157
7048	3982	AACCACGU U UGAUGUCG	8782	CGACAUA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGUU	27158
7049	3981	ACCACGUU U GAUGUCGU	8783	ACGACAUC CUGAUGAG	GCCGUUAGGC	CGAA AACGUGGU	27159
7055	3975	UUUGAUGU C GUUGUGAA	8784	UUCACAAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAAA	27160
7058	3972	GAUGUCGU U GUGAUGU	8785	ACAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA ACGACAUC	27161
7067	3963	GUGAAUGU U AUGGCUCU	8786	AGAGCCAU CUGAUGAG	GCCGUUAGGC	CGAA ACAUUCAC	27162
7068	3962	UGAAUGUU A UGGCUCUC	8787	GAGAGCCA CUGAUGAG	GCCGUUAGGC	CGAA AACAUUCA	27163
7074	3956	UUAUGGCU C UCAGUAUC	8788	GAUACUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCCAUAA	27164
7076	3954	AUGGCUU C AGUAUCAU	8789	AUGAUACU CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCAU	27165
7080	3950	CUCUCAGU A UCAUCCAA	8790	UUGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACUGAGAG	27166
7082	3948	CUCAGUAU C AUCCAAGC	8791	GCUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA AUACUGAG	27167
7085	3945	AGUAUCAU C CAAGCUAC	8792	GUAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGAUACU	27168
7092	3938	UCCAAGCU A CCGCCAGU	8793	ACUGGCGG CUGAUGAG	GCCGUUAGGC	CGAA AGCUUGGA	27169

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7105	3925	CAGUGAAU U CAACACAU	8794	AUGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUUCACUG	27170
7106	3924	AGUGAAUU C AACACAUC	8795	GAUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA AAUUCACU	27171
7114	3916	CAACACAU C AGGGAUCU	8796	AGAUCCTU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUUG	27172
7121	3909	UCAGGGAU C UCCCAGAG	8797	CUCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA AUCCCUGA	27173
7123	3907	AGGGAUUC C CCAGAGCA	8798	UGCUCUGG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCCCU	27174
7136	3894	AGCAGAAU U UGGCGGGC	8799	GCCCGCCA CUGAUGAG	GCCGUUAGGC	CGAA AUUCUGCU	27175
7137	3893	GCAGAAUU U GCGGGGCA	8800	UGCCCGCC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCUGC	27176
7147	3883	GCGGGCAU C GUGAUAAG	8801	CUUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCGC	27177
7153	3877	AUCGUGAU A AGCCAUTU	8802	AAAUGGCU CUGAUGAG	GCCGUUAGGC	CGAA AUCACGAU	27178
7160	3870	UAAGCCAU U UGAAAGAA	8803	UUCUUUCA CUGAUGAG	GCCGUUAGGC	CGAA AUGGCUUA	27179
7161	3869	AAGCCAUU U GAAAGAAA	8804	UUUCUUUC CUGAUGAG	GCCGUUAGGC	CGAA AAUGGCUU	27180
7184	3846	GCCAACAU C AACAAAUA	8805	AUUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGGC	27181
7195	3835	CAAAAUUGU U CUCCUGGU	8806	ACCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ACAUUUUG	27182
7196	3834	AAAAGUUU C UCCUGGUU	8807	AACCAGGA CUGAUGAG	GCCGUUAGGC	CGAA AACAUUUU	27183
7198	3832	AAUGUUUC C CUGGUUGG	8808	CCAACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGAACAUU	27184
7204	3826	CUCCUGGU U GGUCCAUC	8809	GAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGAG	27185
7208	3822	UGGUUGGU C CAUCUCGC	8810	GCGAGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCAACCA	27186
7212	3818	UGGUCCAU C UCGCUUUG	8811	CAAAGCGA CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCA	27187
7214	3816	GUCCAUCU C GCUUUGAG	8812	CUCAAAGC CUGAUGAG	GCCGUUAGGC	CGAA AGAUGGAC	27188
7218	3812	AUCUCGCU U UGAGAAAC	8813	GUUUCUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCGAGAU	27189
7219	3811	UCUCGCUU U GAGAAACG	8814	CGUUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCGAGA	27190
7238	3792	GCCACCAU A AACACUGG	8815	CCAGUGUU CUGAUGAG	GCCGUUAGGC	CGAA AUGGUGGC	27191
7248	3782	ACACUGGU U GUAUCUUG	8816	CAAGAUAC CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUGU	27192
7251	3779	CUGGUUGU A UCUUGAAG	8817	CUUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACAACCAG	27193
7253	3777	GGUUGUAU C UUGAAGGU	8818	ACCUUCA A CUGAUGAG	GCCGUUAGGC	CGAA AUACAACC	27194
7255	3775	UUGUAUCU U GAAGGUCG	8819	CGACCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACCUACAA	27195
7262	3768	UUGAAGGU C GCCAUGAG	8820	CUCAUGGC CUGAUGAG	GCCGUUAGGC	CGAA ACCUACAA	27196
7281	3749	CCAAGUGU A CCACGUCU	8821	AGACGUGG CUGAUGAG	GCCGUUAGGC	CGAA ACACUUGG	27197
7288	3742	UACCACGU C UCCUCCCG	8822	CGGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACGUGGUA	27198
7290	3740	CCACGUCU C CUCCCGAA	8823	UUCGGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGACGUGG	27199
7293	3737	CGUCUCU C CCGAAUUA	8824	UAAUUCGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGACG	27200
7300	3730	UCCCGAAU U AGAUUCUG	8825	CAGAAUCU CUGAUGAG	GCCGUUAGGC	CGAA AUUCGGGA	27201
7301	3729	CCCGAAUU A GAUUCUGC	8826	GCAGAAUC CUGAUGAG	GCCGUUAGGC	CGAA AAUUCGGG	27202
7305	3725	AAUUGAAU U CUGCGAAA	8827	UUUCGCAG CUGAUGAG	GCCGUUAGGC	CGAA AUCUAAUU	27203
7306	3724	AUUAGAAU C UGCGAAAG	8828	CUUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA AAUCUAAU	27204
7336	3694	GAUGACAU A GCGUAACA	8829	UGUUAACG CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAUC	27205
7341	3689	CAUAGCGU A ACACAUCA	8830	UGAUGUGU CUGAUGAG	GCCGUUAGGC	CGAA ACGCUAUG	27206
7348	3682	UAACACAU C AGUGUAAG	8831	CUUACACU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGUUA	27207
7354	3676	AUCAGUGU A AGUAAUGC	8832	GCAUUAUC CUGAUGAG	GCCGUUAGGC	CGAA ACACUGAU	27208
7358	3672	GUGUAAGU A AUGCCCCC	8833	GGGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA ACUUAACAC	27209
7380	3650	CCAGGACU A GCAGAGCA	8834	UGCUCUGC CUGAUGAG	GCCGUUAGGC	CGAA AGUCCUGG	27210
7391	3639	AGAGCAAU C AGUAUAGC	8835	GCUAUACU CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUCU	27211
7395	3635	CAUACAGU A UAGCUGGC	8836	GCCAGCUA CUGAUGAG	GCCGUUAGGC	CGAA AUCUAUUG	27212
7397	3633	AUCAGUAU A GCUGGCAU	8837	AUGCCAGC CUGAUGAG	GCCGUUAGGC	CGAA AUACUGAU	27213
7412	3618	AUGCUGAU C UUGGCUGU	8838	ACAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGCAU	27214
7414	3616	GCUGAUUC U GGCUGUCC	8839	GGACAGCC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGC	27215
7421	3609	UUGGCUGU C CACCUCUU	8840	AAGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCCAA	27216
7427	3603	GUCCACCU C UUGCGAAG	8841	CUUCGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGGAC	27217
7429	3601	CCACCUCU U GCGAAGGA	8842	UCCUUCGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUGG	27218
7441	3589	AAGGACCU C CUGGGUGG	8843	CCACCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCUU	27219
7486	3544	AAAAGGGU C AAUCAUAU	8844	AUAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACCCUUUU	27220
7490	3540	GGGUCAAU C AUAUCAGC	8845	GCUGAUUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGACCC	27221
7493	3537	UCAAUCAU A UCAGCAUU	8846	AAUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUAUGUGA	27222
7495	3535	AAUCAUAU C AGCAUUAU	8847	AUAUAUGU CUGAUGAG	GCCGUUAGGC	CGAA AUAUGAUU	27223
7501	3529	AUCAGCAU U AUAAGCAU	8848	AUGCUIAU CUGAUGAG	GCCGUUAGGC	CGAA AUGCUGAU	27224
7502	3528	UCAGCAUU A UAAGCAUU	8849	AAUGCUIA CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUGA	27225
7504	3526	AGCAUUAU A AGCAUUCA	8850	UGAAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AUAUGUCU	27226
7510	3520	AUAAGCAU U CACUUGUG	8851	CACAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUAU	27227
7511	3519	UAAGCAUU C ACUUGUGA	8852	UCACAAGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUIA	27228
7515	3515	CAUUCACU U GUGACUGC	8853	GCAGUCAC CUGAUGAG	GCCGUUAGGC	CGAA AGUGAAUG	27229
7532	3498	ACGAGGGU C UUUUCAUC	8854	GAUGAAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCCUCGU	27230
7534	3496	GAGGGUCU U UUCAUCAU	8855	AUGAUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGACCCUC	27231

7535	3495	AGGGUCUU U UCAUCAUG	8856	CAUGAUGA CUGAUGAG	GCCGUUAGGC	CGAA AAGACCCU	27232
7536	3494	GGGUCUUU U CAUCAUGU	8857	ACAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AAAGACCC	27233
7537	3493	GGUCUUUU C AUCAUGUC	8858	GACAUGAU CUGAUGAG	GCCGUUAGGC	CGAA AAAAGACC	27234
7540	3490	CUUUUCAU C AUGUCUCU	8859	AGAGACAU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAAAG	27235
7545	3485	CAUCAUGU C UCUGUGGU	8860	ACCACAGA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGAUG	27236
7547	3483	UCAUGUCU C UGUGGUCU	8861	AGACCACA CUGAUGAG	GCCGUUAGGC	CGAA AGACAUGA	27237
7554	3476	UCUGUGGU C UGAUCUCC	8862	GGAGAUA CUGAUGAG	GCCGUUAGGC	CGAA ACCACAGA	27238
7559	3471	GGUCUGAU C UCCAUAAC	8863	GGUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUCAGACC	27239
7561	3469	UCUGAUCU C CAUACCAU	8864	AUGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAGA	27240
7565	3465	AUCUCCAU A CCAUACCA	8865	UGGUUAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGAU	27241
7570	3460	CAUACCAU A CCAACAGC	8866	GCUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGUUUG	27242
7585	3445	GCCGCUGU C AGUUUGGU	8867	ACCAAACU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGGC	27243
7589	3441	CUGUCAGU U UGGUAGCG	8868	CGCUUACC CUGAUGAG	GCCGUUAGGC	CGAA ACUGACAG	27244
7590	3440	UGUCAGUU U GGUAGCGC	8869	GCGCUACC CUGAUGAG	GCCGUUAGGC	CGAA AACGACAC	27245
7594	3436	AGUUUGGU A GCGCAGUG	8870	CACUGCGC CUGAUGAG	GCCGUUAGGC	CGAA ACCAAACU	27246
7608	3422	GUGGUGGU A AGGUGCAG	8871	CUGCACCU CUGAUGAG	GCCGUUAGGC	CGAA ACCACCAC	27247
7619	3411	GUGCAGCU C CUGCAGCA	8872	UGCUGCAG CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCAC	27248
7633	3397	GCACCAAU C UGUUAUCA	8873	UGAUAAAC CUGAUGAG	GCCGUUAGGC	CGAA AUUGGUGC	27249
7637	3393	CAUUCUGU U AUCAACUU	8874	AAGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAGAUUG	27250
7638	3392	AAUCUGUU A UCAACUUU	8875	AAAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAUU	27251
7640	3390	UCUGUUUA C AACUUUCC	8876	GGAAAGUU CUGAUGAG	GCCGUUAGGC	CGAA AUAACAGA	27252
7645	3385	UAUCAACU U UCCGCUCU	8877	AGAGCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGAUA	27253
7646	3384	AUCAACUU U CCGCUCUC	8878	GAGAGCGG CUGAUGAG	GCCGUUAGGC	CGAA AAGUUGAU	27254
7647	3383	UCAACUUU C CGCUCUCU	8879	AGAGAGCG CUGAUGAG	GCCGUUAGGC	CGAA AACGUUGA	27255
7652	3378	UUUCCGCU C UCUGUGGU	8880	ACCACAGA CUGAUGAG	GCCGUUAGGC	CGAA AGCGGAAA	27256
7654	3376	UCCGCUCU C UGUGGUGG	8881	CCACCACA CUGAUGAG	GCCGUUAGGC	CGAA AGAGCGGA	27257
7677	3353	UGGCAGGU C CACGGUGU	8882	ACACCGUG CUGAUGAG	GCCGUUAGGC	CGAA ACCUGCCA	27258
7686	3344	CACGGUGU C CGCAGCUC	8883	GAGCUGCG CUGAUGAG	GCCGUUAGGC	CGAA ACACCGUG	27259
7694	3336	CCGCAGCU C UCACUCAG	8884	CUGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGCGG	27260
7696	3334	GCAGCUCU C ACUCAGGG	8885	CCCUAGAU CUGAUGAG	GCCGUUAGGC	CGAA AGAGCUGC	27261
7700	3330	CUCUCACU C AGGGUGAC	8886	GUCACCUU CUGAUGAG	GCCGUUAGGC	CGAA AGUGAGAG	27262
7712	3318	GUGACCGU A GUUCCUGG	8887	CCAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA ACCGUCAC	27263
7715	3315	ACCGUAGU U CCUGGGCA	8888	UGCCCAGG CUGAUGAG	GCCGUUAGGC	CGAA ACUACGGU	27264
7716	3314	CCGUAGUU C CUGGGCAG	8889	CUGCCCAG CUGAUGAG	GCCGUUAGGC	CGAA AACUACGG	27265
7726	3304	UGGGCAGU A AUCGAAGU	8890	ACUUCGAU CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCCA	27266
7729	3301	GCAGUAAU C GAAGUCAA	8891	UUGACUUC CUGAUGAG	GCCGUUAGGC	CGAA AUUACUGC	27267
7735	3295	AUCGAAGU C AAUCUCUA	8892	UAGAGAUU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCGAU	27268
7739	3291	AAGUCAAU C UCUACCCG	8893	CGGGUAGA CUGAUGAG	GCCGUUAGGC	CGAA AUUGACUU	27269
7741	3289	GUCAAUCU C UACCCGGC	8894	GCCGGGUA CUGAUGAG	GCCGUUAGGC	CGAA AGAUUGAC	27270
7743	3287	CAAUUCU A CCGGCCU	8895	AGGCCGGG CUGAUGAG	GCCGUUAGGC	CGAA AGAGAUUG	27271
7752	3278	CCCGGCCU U CGUCCCAU	8896	AUGGGACG CUGAUGAG	GCCGUUAGGC	CGAA AGGCCGGG	27272
7753	3277	CCGGCCUU C GUCCCAUG	8897	CAUGGGAC CUGAUGAG	GCCGUUAGGC	CGAA AAGGCCGG	27273
7756	3274	GCCUUCGU C CCAUGGGC	8898	GCCCAUGG CUGAUGAG	GCCGUUAGGC	CGAA ACGAAGGC	27274
7771	3259	GCCCUGGU U UUGUGUCU	8899	AGACACAA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGGC	27275
7772	3258	CCCUGGUU U UGUGUCUU	8900	AAGACACA CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGG	27276
7773	3257	CCUGGUUU U GUGUCUUG	8901	CAAGACAC CUGAUGAG	GCCGUUAGGC	CGAA AAACCAGG	27277
7778	3252	UUUUGUGU C UUGUACCC	8902	GGGUACAA CUGAUGAG	GCCGUUAGGC	CGAA ACACAAAA	27278
7780	3250	UUGUGUCU U GUACCCAG	8903	CUGGGUAG CUGAUGAG	GCCGUUAGGC	CGAA AGACACAA	27279
7783	3247	UGUCUUGU A CCGAGGUC	8904	GACCUGGG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGACA	27280
7791	3239	ACCCAGGU C UCCGAUUG	8905	CAAUCCGA CUGAUGAG	GCCGUUAGGC	CGAA ACCUGGGU	27281
7793	3237	CCAGGUCU C CGAUUGUG	8906	CACAAUCG CUGAUGAG	GCCGUUAGGC	CGAA AGACCUGG	27282
7798	3232	UCUCCGAU U GUGAUUGC	8907	GCAAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUCGGAGA	27283
7804	3226	AUUGUGAU U GUUCGUG	8908	CACGAAGC CUGAUGAG	GCCGUUAGGC	CGAA AUCACAAU	27284
7808	3222	UGAUUGCU U CGUGGUCC	8909	GGACCACG CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUCA	27285
7809	3221	GAUUGCUU C GUGGUCCC	8910	GGGACCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGCAAUC	27286
7815	3215	UUCGUGGU C CCGCCAGU	8911	ACUGGCCG CUGAUGAG	GCCGUUAGGC	CGAA ACCACGAA	27287
7833	3197	UGUCUGU A UUAUCAAG	8912	CUUGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUCA	27288
7835	3195	ACUGGUUA U AUCAAGUC	8913	GACUUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUACAGU	27289
7836	3194	CUGGUUAU A UCAAGUCA	8914	UGACUUGA CUGAUGAG	GCCGUUAGGC	CGAA AAUACCAG	27290
7838	3192	GGUAUUUA C AAGUCACU	8915	AGUGACUU CUGAUGAG	GCCGUUAGGC	CGAA AUAAUACC	27291
7843	3187	UAUCAAGU C ACUCUCAA	8916	UUGAGAGU CUGAUGAG	GCCGUUAGGC	CGAA ACUUGAUA	27292
7847	3183	AAGUCACU C UCAAGGAU	8917	AUCCUUGA CUGAUGAG	GCCGUUAGGC	CGAA AGUGACUU	27293

Table VIII

7849	3181	GUCACUCU C AAGGAUUC	8918	GAAUCCUU CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUGAC	27294
7856	3174	UCAAGGAU U CCAUCGCC	8919	GGCGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	AUCCUUGA	27295
7857	3173	CAAGGAU C CAUCGCCC	8920	GGGCGAUG CUGAUGAG	GCCGUUAGGC	CGAA	AAUCCUUG	27296
7861	3169	GAUUCCAU C GCCCACA	8921	UGUGGGGC CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAAUC	27297
7874	3156	CACAAGGU A UGCGUCUC	8922	GAGACGCA CUGAUGAG	GCCGUUAGGC	CGAA	ACCUUGUG	27298
7880	3150	GUAUGCGU C UCAGGCCA	8923	UGGCCUGA CUGAUGAG	GCCGUUAGGC	CGAA	ACGCAUAC	27299
7882	3148	AUGCGUCU C AGGCCACG	8924	CGUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA	AGACGCAU	27300
7892	3138	GGCCACGU A CAUGAUUU	8925	AAAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGGCC	27301
7899	3131	UACAUGAU U UGACUUA	8926	UGAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUGUA	27302
7900	3130	ACAUGAUU U GACUUCAC	8927	GUGAAGUC CUGAUGAG	GCCGUUAGGC	CGAA	AAUCAUGU	27303
7905	3125	AUUUGACU U CACCCAGA	8928	UCUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUCAAAU	27304
7906	3124	UUUGACUU C ACCCAGAA	8929	UUCUGGGU CUGAUGAG	GCCGUUAGGC	CGAA	AAGUCAAA	27305
7922	3108	ACUGCCCU U UCAAGCUU	8930	AAGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGGCAGU	27306
7923	3107	CUGCCCUU U CAAGCUUC	8931	GAAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGGCAG	27307
7924	3106	UGCCCUUU C AAGCUUCC	8932	GGAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	AAAGGGCA	27308
7930	3100	UUCACGU U CCACGUAU	8933	AUACGUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGCUUGAA	27309
7931	3099	UCAAGCUU C CACGUAUC	8934	GAUACGUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCUUGA	27310
7937	3093	UUCCACGU A UCAUUGAG	8935	CUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA	ACGUGGAA	27311
7939	3091	CCACGUAU C AUUGAGCC	8936	GGCUCAAU CUGAUGAG	GCCGUUAGGC	CGAA	AUACGUGG	27312
7942	3088	CGUAUCAU U GAGCCUGC	8937	GCAGGCUC CUGAUGAG	GCCGUUAGGC	CGAA	AUGAUACG	27313
7952	3078	AGCCUGCU U UCAAUCCA	8938	UGGAUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGGCU	27314
7953	3077	GCCUGCUU U CAAUCCAA	8939	UUGGAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAGGC	27315
7954	3076	CCUGCUUU C AAUCCAAU	8940	AUUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCAGG	27316
7958	3072	CUUUCAAU C CAUAGGA	8941	UCCUAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUUGAAAG	27317
7963	3067	AAUCCAAU A GGACAGGU	8942	ACCUGUCC CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGAUU	27318
7972	3058	GGACAGGU C ACUGUGGA	8943	UCCACAGU CUGAUGAG	GCCGUUAGGC	CGAA	ACCUGUCC	27319
7982	3048	CUGUGGAU C GCCAAGUU	8944	AACUUGGC CUGAUGAG	GCCGUUAGGC	CGAA	AUCCACAG	27320
7990	3040	CGCCAAGU U GUUCUUGA	8945	UCAAGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUUGGCG	27321
7993	3037	CAAGUUGU U CUUGACAG	8946	CUGUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACAACUUG	27322
7994	3036	AAGUUGUU C UUGACAGC	8947	GCUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA	AACAACUU	27323
7996	3034	GUUGUUCU U GACAGCCG	8948	CGGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA	AGAACAAC	27324
8006	3024	ACAGCCGU U CCAUGAU	8949	AUCAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	ACGGCUGU	27325
8007	3023	CAGCCGUU C CAUUGAUC	8950	GAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AACGGCUG	27326
8015	3015	CCAUGAU C UUCGAGUC	8951	GACUCGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUCAUUGG	27327
8017	3013	AAUGAUCU U CGAGUCAC	8952	GUGACUCG CUGAUGAG	GCCGUUAGGC	CGAA	AUGACAUU	27328
8018	3012	AUGAUCUU C GAGUCACA	8953	UGUGACUC CUGAUGAG	GCCGUUAGGC	CGAA	AAGAUAU	27329
8023	3007	CUUCGAGU C ACAUUCAG	8954	CUGAAUGU CUGAUGAG	GCCGUUAGGC	CGAA	ACUCGAAG	27330
8028	3002	AGUCACAU U CAGUUGUG	8955	CACAACUG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGACU	27331
8029	3001	GUCACAUU C AGUUGUGU	8956	ACACAACU CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUGAC	27332
8033	2997	CAUUCAGU U GUGUUGCU	8957	AGCAACAC CUGAUGAG	GCCGUUAGGC	CGAA	ACUGAAUG	27333
8038	2992	AGUUGUGU U GCUCUCUC	8958	GAGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ACACAACU	27334
8042	2988	GUGUUGCU C UCUCUGAC	8959	GUCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCAACAC	27335
8044	2986	GUUGCUCU C UCUGACCU	8960	AGGUCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGCAAC	27336
8046	2984	UGCUCUCU C UGACCUUC	8961	GAAGGUCA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGAGCA	27337
8053	2977	UCUGACCU U CAGGAACA	8962	UGUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGUCAGA	27338
8054	2976	CUGACCUU C AGGAACAU	8963	AUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA	AAGGUCAG	27339
8063	2967	AGGAACAU C CGAGUGCU	8964	AGCACUCG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCCU	27340
8085	2945	GACCAAAU C CAAAUCC	8965	GGAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGGUC	27341
8092	2938	UCCAAAAU C CUCCACUU	8966	AAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUGGA	27342
8095	2935	AAAAUCCU C CACUUCUA	8967	UAGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAUUUU	27343
8100	2930	CCUCCACU U CUAAGCUA	8968	UAGCUUAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGGAGG	27344
8101	2929	CUCCACUU C UAAGCUAU	8969	AUAGCUUA CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGGAG	27345
8103	2927	CCACUUCU A AGCUAUUC	8970	GAAUAGCU CUGAUGAG	GCCGUUAGGC	CGAA	AGAAGUGG	27346
8108	2922	UCUAAGCU A UUCAAGC	8971	GCUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUUAGA	27347
8110	2920	UAAGCUAU U CCAAGCGC	8972	GCGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AUAGCUUA	27348
8111	2919	AAGCUAUU C CAAGCGCG	8973	CGCGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAUAGCUU	27349
8122	2908	AGCGCGAU U CUGAGUCG	8974	CGACUCAG CUGAUGAG	GCCGUUAGGC	CGAA	AUCGCGCU	27350
8123	2907	GCGCGAUU C UGAGUCGG	8975	CCGACUCA CUGAUGAG	GCCGUUAGGC	CGAA	AAUCGCGC	27351
8129	2901	UUCUGAGU C GGACAUUC	8976	GAAUGUCC CUGAUGAG	GCCGUUAGGC	CGAA	ACUCAGAA	27352
8136	2894	UCGGACAU U CCUUGGUC	8977	GACCAAGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUCCGA	27353
8137	2893	CGGACAUU C CUUGGUUC	8978	AGACCAAG CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUCCG	27354
8140	2890	ACAUUCU U GGUCUCCG	8979	CGGAGACC CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAUGU	27355

8144	2886	UCCUUGGU C UCCGGACC	8980	GGUCCGGA CUGAUGAG	GCCGUUAGGC	CGAA	ACCAAGGA	27356
8146	2884	CUUGGUU C CGGACCAU	8981	AUGGUCCG CUGAUGAG	GCCGUUAGGC	CGAA	AGACCAAG	27357
8155	2875	CGGACCAU C AACCACAA	8982	UUGUGGUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUCCG	27358
8170	2860	AAAGGUGU U GUUGGCGA	8983	UCGCCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ACACCUUU	27359
8173	2857	GGUGUUGU U GGCGAGUU	8984	AACUCGCC CUGAUGAG	GCCGUUAGGC	CGAA	ACAACACC	27360
8181	2849	UGGCGAGU U CUGGUGCA	8985	UGCACCAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUCGCCA	27361
8182	2848	GGCGAGUU C UGGUGCAA	8986	UUGCACCA CUGAUGAG	GCCGUUAGGC	CGAA	AACUCGCC	27362
8193	2837	GUGCAAAU A AAUACUC	8987	GAGUAUUU CUGAUGAG	GCCGUUAGGC	CGAA	AUUUGCAC	27363
8198	2832	AAUAAAAU A CUCUUUCC	8988	GGAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUUUU	27364
8201	2829	AAAUAACU C UUUCCCCA	8989	UGGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AGUAUUUU	27365
8203	2827	AAUACUCU U UCCCCAGG	8990	CCUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUAUU	27366
8204	2826	AUACUCUU U CCCCAGGC	8991	GCCUGGGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGAGUAU	27367
8205	2825	UACUCUUU C CCCAGGCC	8992	GGCCUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAGAGUA	27368
8215	2815	CCAGGCCU U CCAGCCAA	8993	UUGGCUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGCCUGG	27369
8216	2814	CAGGCCUU C CAGCCAAU	8994	AUUGGCUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGCCUG	27370
8225	2805	CAGCCAAU U UCCAAUUU	8995	AAAUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGCUG	27371
8226	2804	AGCCAAUU U CCAAUUUU	8996	AAAAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGGCU	27372
8227	2803	GCCAAUUU C CAAUUUUU	8997	AAAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AAAUUGGC	27373
8232	2798	UUUCCAAU U UUUCCGUG	8998	CACGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	AUUGGAAA	27374
8233	2797	UUCCAAUU U UUCCGUGG	8999	CCACGGAA CUGAUGAG	GCCGUUAGGC	CGAA	AAUUGGAA	27375
8234	2796	UCCAAUUU U UCCGUGGU	9000	ACCACGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAAUUGGA	27376
8235	2795	CCAAUUUU U CCGUGGUG	9001	CACCACGG CUGAUGAG	GCCGUUAGGC	CGAA	AAAAUUGG	27377
8236	2794	CAAUUUUU C CGUGGUGG	9002	CCACCACG CUGAUGAG	GCCGUUAGGC	CGAA	AAAAUUG	27378
8256	2774	UGAGGCGU U UAGGUGCU	9003	AGCACCUA CUGAUGAG	GCCGUUAGGC	CGAA	ACGCCUCA	27379
8257	2773	GAGGCGUU U AGGUGCUG	9004	CAGCACCU CUGAUGAG	GCCGUUAGGC	CGAA	AACGCCUC	27380
8258	2772	AGGCGUUU A GGUGCUGA	9005	UCAGCACC CUGAUGAG	GCCGUUAGGC	CGAA	AAACGCCU	27381
8269	2761	UGCUGACU U GUACAUC	9006	GAAUGUAC CUGAUGAG	GCCGUUAGGC	CGAA	AGUCAGCA	27382
8272	2758	UGACUUGU A CAUUCUUU	9007	AGGGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	ACAAGUCA	27383
8276	2754	UGUACAUU U CCCUCCUG	9008	CAGGAGGG CUGAUGAG	GCCGUUAGGC	CGAA	AUGUACAA	27384
8277	2753	UGUACAUU C CCUCCUGU	9009	ACAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUACA	27385
8281	2749	CAUUCUUU C CUGUUUCU	9010	AGAAACAG CUGAUGAG	GCCGUUAGGC	CGAA	AGGGAAUG	27386
8286	2744	CCUCCUUU U UCUCACCC	9011	GGUUGAGA CUGAUGAG	GCCGUUAGGC	CGAA	ACAGGAGG	27387
8287	2743	CUCCUGUU U CUCAACCA	9012	UGGUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	AAACAGGAG	27388
8288	2742	UCCUGUUU C UCAACCAC	9013	GUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	AAACAGGA	27389
8290	2740	CUGUUUCU C AACCACGA	9014	UCGUGGUU CUGAUGAG	GCCGUUAGGC	CGAA	AGAAACAG	27390
8303	2727	ACGACACU A AGGUCCAC	9015	GUGGACCU CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUCGU	27391
8308	2722	ACUAAGGU C CACACCAU	9016	AUGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACCUUAGU	27392
8317	2713	CACACCAU U CUCCUUCA	9017	UGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUGGUGUG	27393
8318	2712	ACACCAUU C UCCUUCAA	9018	UUGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAUGGUGU	27394
8320	2710	ACCAUUUC C CUUCAAAA	9019	UUUUUAGG CUGAUGAG	GCCGUUAGGC	CGAA	AGAAUGGU	27395
8323	2707	AUUCUCCU U CAAAAGAG	9020	CUUUUUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGAAU	27396
8324	2706	UUCUCCUU C AAAAGAGU	9021	ACUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGAA	27397
8335	2695	AAGAGUGU U CAGCUCGU	9022	ACGAGCUG CUGAUGAG	GCCGUUAGGC	CGAA	ACACUCUU	27398
8336	2694	AGAGUGUU C AGCUCGUC	9023	GACGAGCU CUGAUGAG	GCCGUUAGGC	CGAA	AACACUCU	27399
8341	2689	GUUCAGCU C GUCCUUCA	9024	UGAAGGAC CUGAUGAG	GCCGUUAGGC	CGAA	AGCUGAAC	27400
8344	2686	CAGCUCGU C CUUCACUG	9025	CAGUGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACGAGCUG	27401
8347	2683	CUCGUCCU U CACUGCUU	9026	AAGCAGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGACGAG	27402
8348	2682	UCGUCCUU C ACUGCUUC	9027	GAAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA	AAGGACGA	27403
8355	2675	UCACUGCU U CCCACAUU	9028	AAUGUGGG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGUGA	27404
8356	2674	CACUGCUU C CCACAUUU	9029	AAAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAGUG	27405
8363	2667	UCCCAU U UGAUGCUC	9030	GAGCAUCA CUGAUGAG	GCCGUUAGGC	CGAA	AUGUGGGA	27406
8364	2666	CCCACAUU U GAUGCUCC	9031	GGAGCAUC CUGAUGAG	GCCGUUAGGC	CGAA	AAUGUGGG	27407
8371	2659	UUGAUGCU C CAGUCUGG	9032	CCAGACUG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUCAA	27408
8376	2654	GUCCACAGU C UGGAAACU	9033	AGUUUCCA CUGAUGAG	GCCGUUAGGC	CGAA	ACUGGAGC	27409
8388	2642	AAACUGAU C GUAGACCG	9034	CGGUCUAC CUGAUGAG	GCCGUUAGGC	CGAA	AUCAGUUU	27410
8391	2639	CUGAUCGU A GACCGCAC	9035	GUGCGGUC CUGAUGAG	GCCGUUAGGC	CGAA	ACGAUCAG	27411
8403	2627	CGCACACU C CUUCCUUA	9036	UAAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUGCG	27412
8406	2624	ACACUCCU U CCUAUGA	9037	UCAUAAGG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAGUGU	27413
8407	2623	CACUCCUU C CUUAUGAG	9038	CUCAUAAG CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAGUG	27414
8410	2620	UCCUCCUU U AUGAGCUU	9039	AAGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA	AGGAAGGA	27415
8411	2619	CCUCCUUU A UGAGCUUU	9040	AAAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA	AAGGAAGG	27416
8418	2612	UAUGAGCU U UCUGAUG	9041	CAUUCAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCAUA	27417

Table VIII

8419	2611	AUGAGCUU U CUGAAUGA	9042	UCAUUCAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCUCAU	27418
8420	2610	UGAGCUUU C UGAAUGAU	9043	AUCAUUC A CUGAUGAG	GCCGUUAGGC	CGAA AAAGCUCA	27419
8429	2601	UGAAUGAU C UUGGCUAG	9044	CUAGCCAA CUGAUGAG	GCCGUUAGGC	CGAA AUCAUUC A	27420
8431	2599	AAUGAUCU U GGCUAGGC	9045	GCCUAGCC CUGAUGAG	GCCGUUAGGC	CGAA AGAUCAUU	27421
8436	2594	UCUUGGCU A GGCCUUGU	9046	ACAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA AGCCAAGA	27422
8442	2588	CUAGGCCU U GUGGCGUU	9047	AACGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGCCUAG	27423
8450	2580	UGUGGCGU U UCAGGGUA	9048	UACCCUGA CUGAUGAG	GCCGUUAGGC	CGAA ACGCCACA	27424
8451	2579	GUGGCGUU U CAGGGUAA	9049	UUACCCUG CUGAUGAG	GCCGUUAGGC	CGAA AACGCCAC	27425
8452	2578	UGGCGUUU C AGGGUAAU	9050	AUUACCCU CUGAUGAG	GCCGUUAGGC	CGAA AAACGCCA	27426
8458	2572	UUCAGGGU A AUACUUGU	9051	ACAAGUAU CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGAA	27427
8461	2569	AGGGUAAU A CUUGUACC	9052	GGUACAAG CUGAUGAG	GCCGUUAGGC	CGAA AUUACCCU	27428
8464	2566	GUAAUACU U GUACCGGU	9053	ACCGGUAC CUGAUGAG	GCCGUUAGGC	CGAA AGUAUUC	27429
8467	2563	AUACUUGU A CCGGUCCA	9054	UGGACCGG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGUAU	27430
8473	2557	GUACCGGU C CAUCCAAG	9055	CUUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACCGGUAC	27431
8477	2553	CGGUCCAU C CAAGCCUC	9056	GAGGCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGGACCG	27432
8485	2545	CCAAGCCU C CACAUCAU	9057	AUGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGGCUUGG	27433
8491	2539	CUCCACAU C AUUGUGUA	9058	UACACAAU CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAG	27434
8494	2536	CACAUCAU U GUGUAUGA	9059	UCAUACAC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGUG	27435
8499	2531	CAUUGUGU A UGAACACU	9060	AGUGUUCA CUGAUGAG	GCCGUUAGGC	CGAA ACACAAUG	27436
8508	2522	UGAACACU C CACUUGCA	9061	UGGAAGUG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUCA	27437
8513	2517	ACUCCACU U CCACAUCU	9062	AGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA AGUGGAGU	27438
8514	2516	CUCCACUU C CACAUCUC	9063	GAGAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGUGGAG	27439
8520	2510	UUCACAU C UCAGCUCU	9064	AGAGCUGA CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGAA	27440
8522	2508	CCACAUCU C AGCUCUUG	9065	CAAGAGCU CUGAUGAG	GCCGUUAGGC	CGAA AGAUGUGG	27441
8527	2503	UCUCCAGU C UUGCCGGC	9066	GCCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCUGAGA	27442
8529	2501	UCAGCUCU U GCCGGCUG	9067	CAGCCGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCUGA	27443
8542	2488	GCUGAUGU C UAUGGCAC	9068	GUGCCAUA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCAGC	27444
8544	2486	UGAUGUCU A UGGCACAC	9069	GUGUGCCA CUGAUGAG	GCCGUUAGGC	CGAA AGACAUC A	27445
8560	2470	CCCAGUGU C AGCGUGCA	9070	UGCACGCU CUGAUGAG	GCCGUUAGGC	CGAA ACACUGGG	27446
8572	2458	GUGCAGCU U CACGGAGA	9071	UCUCCGUG CUGAUGAG	GCCGUUAGGC	CGAA ACGUGCAC	27447
8573	2457	UGCACGUU C ACGGAGAG	9072	CUCUCCGU CUGAUGAG	GCCGUUAGGC	CGAA AACGUGCA	27448
8595	2435	GCAGAACU C CUCCAACU	9073	AGUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGUUCUGC	27449
8598	2432	GAACUCCU C CAACUGCG	9074	CGCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUUC	27450
8622	2408	UGAGAGCU A UGGACCUA	9075	UAGGUCCA CUGAUGAG	GCCGUUAGGC	CGAA AGCUCUCA	27451
8630	2400	AUGGACCU A UCACGAGC	9076	GCUCUGUA CUGAUGAG	GCCGUUAGGC	CGAA AGGUCCAU	27452
8632	2398	GGACCUAU C ACGAGCAU	9077	AUGCUCGU CUGAUGAG	GCCGUUAGGC	CGAA AUAGGUCC	27453
8641	2389	ACGAGCAU U GAUGCCCA	9078	UGGGCAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGCUCGU	27454
8651	2379	AUGCCCAU C CACAACAG	9079	CUGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGGCAU	27455
8676	2354	CCAGCAAU C CUUGCGUU	9080	AACGCAAG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUGG	27456
8679	2351	GCAAUCCU U GCGUUAUC	9081	GAUAACGC CUGAUGAG	GCCGUUAGGC	CGAA AGGAUUGC	27457
8684	2346	CCUUGCGU U AUCCAGGA	9082	UCCUGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACGCAAGG	27458
8685	2345	CUUGCGUU A UCCAGGAC	9083	GUCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AACGCAAG	27459
8687	2343	UGCGUUAU C CAGGACAU	9084	AUGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AUAAACGA	27460
8700	2330	ACAUGCCU C CGAACAGU	9085	ACUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGCAUGU	27461
8721	2309	GGAAUGCU C CUCCGAAC	9086	GUUCGGAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAUUC C	27462
8724	2306	AUGCUCU C CGAACACU	9087	AGUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCAU	27463
8733	2297	CGAACACU U GAUGGACA	9088	UGUCCAUC CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUCG	27464
8746	2284	GACAGCCU U CCCAACUG	9089	CAGUUGGG CUGAUGAG	GCCGUUAGGC	CGAA AGGCUGUC	27465
8747	2283	ACAGCCUU C CCAACUGA	9090	UCAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGCUGU	27466
8769	2261	ACACCCCU C CAACUGAU	9091	AUCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA AGGGGUGU	27467
8778	2252	CAACUGAU C CAAAGUCC	9092	GGACUUUG CUGAUGAG	GCCGUUAGGC	CGAA AUCAGUUG	27468
8785	2245	UCCAAAGU C CCAAGCUG	9093	CAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA ACUUUGGA	27469
8797	2233	AGCUGUGU C UCCUAGAG	9094	CUCUAGGA CUGAUGAG	GCCGUUAGGC	CGAA ACACAGCU	27470
8799	2231	CUGUGUCU C CUAGAGCG	9095	CGCUCUAG CUGAUGAG	GCCGUUAGGC	CGAA AGACACAG	27471
8802	2228	UGUCUCCU A GAGCGGCU	9096	AGCCGCUC CUGAUGAG	GCCGUUAGGC	CGAA AGGAGACA	27472
8811	2219	GAGCGGCU A GUCUCUGC	9097	GCAGAGAC CUGAUGAG	GCCGUUAGGC	CGAA AGCCGCUC	27473
8814	2216	CGGCUAGU C UCUGCGCU	9098	AGCGCAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUAGCCG	27474
8816	2214	GCUAGUCU C UGCGCUCC	9099	GGAGCGCA CUGAUGAG	GCCGUUAGGC	CGAA AGACUAGC	27475
8823	2207	UCUGCGCU C CUUUGAGG	9100	CCUCAAG CUGAUGAG	GCCGUUAGGC	CGAA AGCGCAGA	27476
8826	2204	GCGUCCU U UGAGGGUG	9101	CACCCUCA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCGC	27477
8827	2203	CGCUCCUU U GAGGGUGG	9102	CCACCCUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGCG	27478
8837	2193	AGGGUGGU U GUAAAGGC	9103	GCCUUUAC CUGAUGAG	GCCGUUAGGC	CGAA ACCACCCU	27479

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8840	2190	GUGGUUGU A AAGGCUUU	9104	AAAGCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACCAC	27480
8847	2183	UAAAGGCU U UGCCAAUG	9105	CAUUGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCCUUUA	27481
8848	2182	AAAGGCUU U GCCAAUGC	9106	GCAUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCCUUU	27482
8861	2169	AUGCUGCU U CCAGACUU	9107	AAGUCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGCAGCAU	27483
8862	2168	UGCUGCUU C CAGACUUG	9108	CAAGUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGCAGCA	27484
8869	2161	UCCAGACU U GUGCCAAU	9109	AUUGGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCUGGA	27485
8884	2146	AUGGUGAU U GAUCUGUU	9110	AACAGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCACCAU	27486
8888	2142	UGAUUGAU C UGUUGUUC	9111	GAACAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUCAAUCA	27487
8892	2138	UGAUCUGU U GUUCUCCU	9112	AGGAGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAGAUCA	27488
8895	2135	UCUGUUGU U CUCCUCUG	9113	CAGAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACAGA	27489
8896	2134	CUGUUGUU C UCCUCUGC	9114	GCAGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACAG	27490
8898	2132	GUUGUUCU C CUCUGCCC	9115	GGGCAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAACAA	27491
8901	2129	GUUCUCCU C UGCCACC	9116	GGUGGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGAGAAC	27492
8913	2117	CCACCACU A UGUAGAG	9117	CUCAUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGGUGG	27493
8917	2113	CACUAGU A UGAGUCUC	9118	GAGACUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAUGUG	27494
8923	2107	GUAGAGU C UCCAAAGG	9119	CCUUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCAUAC	27495
8925	2105	AUGAGUCU C CAAAGGGU	9120	ACCCUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGACUCAU	27496
8937	2093	AGGGUGGU U CCAAUUCA	9121	UGAAUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCACCCU	27497
8938	2092	GGGUGGUU C CAAUCAA	9122	UUGAAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACCACCC	27498
8943	2087	GUUCCAAU U CAAUCAGG	9123	CCUGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGGAAC	27499
8944	2086	UUCCAAU C AAUCAGGA	9124	UCCUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGGAA	27500
8948	2082	AAUCAAU C AGGACCUU	9125	AAGGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGAAU	27501
8956	2074	CAGGACCU U AGCGUUGG	9126	CCAACGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGUCCUG	27502
8957	2073	AGGACCUU A GCGUUGGC	9127	GCCAACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGUCCU	27503
8962	2068	CUUAGCGU U GGCCGUGG	9128	CCACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGCUAAG	27504
8989	2041	AAAAGGGU U GACAGUGA	9129	UCACUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCCUUUU	27505
9003	2027	UGACCAAU C UGCCACU	9130	AGUGGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGGUCA	27506
9017	2013	ACUGGCGU U AGGUCGUU	9131	AACGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGCCAGU	27507
9018	2012	CUGGCGUU A GGUCGUUC	9132	GAACGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGCCAG	27508
9022	2008	CGUUAGGU C GUUCAUG	9133	CAUUGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUAACG	27509
9025	2005	UAGGUCCU U CAAUGAAG	9134	CUUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACGACCUA	27510
9026	2004	AGGUCGUU C AAUGAAGC	9135	GCUUCAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACGACCU	27511
9047	1983	GACGAGU A GGAACUUU	9136	AAAGUUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUCGUC	27512
9054	1976	UAGGAACU U UGCAAGGU	9137	ACCUUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUCUUA	27513
9055	1975	AGGAACUU U GCAAGGUC	9138	GACCUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGUCCU	27514
9063	1967	UGCAAGGU C CAUCCGUG	9139	CACGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUUGCA	27515
9067	1963	AGGUCCAU C CGUGCCAG	9140	CUGGCACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGACCU	27516
9079	1951	GCCAGUGU A CUGCAAUU	9141	AAUUGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACUGGC	27517
9087	1943	ACUGCAAU U CCAACACC	9142	GGUGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGCAGU	27518
9088	1942	CUGCAAUU C CAACACCA	9143	UGGUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGCAG	27519
9115	1915	ACCUUGU C UGCGGGAG	9144	CUCCGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACACAGGU	27520
9125	1905	GCGGGAGU C CCAAGAAA	9145	UUUCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACUCCCGC	27521
9136	1894	AAGAAACU U GAAAGCCU	9146	AGGCUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUUUCUU	27522
9145	1885	GAAAGCCU U UGAACAGA	9147	UCUGUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGCUUUC	27523
9146	1884	AAAGCCUU U GAACAGAC	9148	GUCUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGCUUU	27524
9160	1870	GACGCCAU A GGUUGUUC	9149	GAACAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGCGUC	27525
9164	1866	CCAUAGGU U GUUCCCUU	9150	AAGGGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACCUAUGG	27526
9167	1863	UAGGUUGU U CCCUCAA	9151	UUGAAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ACAACCUA	27527
9168	1862	AGGUUGUU C CCUCAA	9152	GUUGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AACACCU	27528
9172	1858	UGUCCCUU U CAACUGCA	9153	UGCAGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGGGAACA	27529
9173	1857	GUUCCCUU C AACUGCAA	9154	UUGCAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGGGAAC	27530
9183	1847	ACUGCAAU U UUUCCAUC	9155	GAUGGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUUGCAGU	27531
9184	1846	CUGCAAUU U UUUCAUCU	9156	AGAUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAUUGCAG	27532
9185	1845	UGCAAUUU U UCCAUCUU	9157	AAGAUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAUUGCA	27533
9186	1844	GCAAUUUU U CCAUCUUC	9158	GAAGAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAAUUGC	27534
9187	1843	CAAUUUUU C CAUCUUA	9159	UGAAGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAAAUUUG	27535
9191	1839	UUUUCCAUC C UUCACUCU	9160	AGAGUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AUGGAAAA	27536
9193	1837	UUCAUCU C CACUCUAC	9161	GUAGAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAUGGAA	27537
9194	1836	UCCAUCU C ACUCUACA	9162	UGUAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AAGAUGGA	27538
9198	1832	UCUUCACU C UACACUUC	9163	GAAGUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGAAGA	27539
9200	1830	UUCACUCU A CACUCAA	9164	UUGAAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGAGUGAA	27540
9205	1825	UCUACACU U CAAUGAC	9165	GUCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA AGUGUAGA	27541

Table VIII

9206	1824	CUACACUU C AAAUGACC	9166	GGUCAUUU CUGAUGAG	GCCGUUAGGC	CGAA	AAGUGUAG	27542
9221	1809	CCCGACGU C AACUUGAC	9167	GUCAAGUU CUGAUGAG	GCCGUUAGGC	CGAA	ACGUCGGG	27543
9226	1804	CGUCAACU U GACAGUGU	9168	ACACUGUC CUGAUGAG	GCCGUUAGGC	CGAA	AGUUGACG	27544
9235	1795	GACAGUGU U GCUUGAAA	9169	UUUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA	ACACUGUC	27545
9239	1791	GUGUUGCU U GAAAAUUC	9170	GAAUUUUC CUGAUGAG	GCCGUUAGGC	CGAA	AGCAACAC	27546
9246	1784	UUGAAAAU U CCACAGGA	9171	UCCUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	AUUUUCAA	27547
9247	1783	UGAAAAUU C CACAGGAA	9172	UUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AAUUUCAA	27548
9261	1769	GAAUGGCU C CAGCCAAA	9173	UUUGGCG CUGAUGAG	GCCGUUAGGC	CGAA	AGCCAUUC	27549
9273	1757	CCAAAGCU U GAUGCAGA	9174	UCUGCAUC CUGAUGAG	GCCGUUAGGC	CGAA	AGCUUUGG	27550
9285	1745	GCAGAGCU C CCUCUUGU	9175	ACAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA	AGCUCUGC	27551
9289	1741	AGCUCCCU C UUGUGAGC	9176	GCUCACAA CUGAUGAG	GCCGUUAGGC	CGAA	AGGGAGCU	27552
9291	1739	CUCCUCU U GUGAGCCC	9177	GGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA	AGAGGGAG	27553
9306	1724	CCAAUGCU A UCACAGAC	9178	GUCUGUGA CUGAUGAG	GCCGUUAGGC	CGAA	AGCAUUGG	27554
9308	1722	AAUGCUAU C ACAGACUG	9179	CAGUCUGU CUGAUGAG	GCCGUUAGGC	CGAA	AUAGCAUU	27555
9319	1711	AGACUGCU U CGUGGCGU	9180	ACGCCACG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGUCU	27556
9320	1710	GACUGCUU C GUGGCGUG	9181	CACGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	AAGCAGUC	27557
9333	1697	CGUUGGUU U CCUCAAAC	9182	GUUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA	ACCACACG	27558
9334	1696	GUGUGGUU C CUCAAACU	9183	AGUUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	AACCACAC	27559
9337	1693	UGGUUCCU C AAACUCCA	9184	UGGAGUUU CUGAUGAG	GCCGUUAGGC	CGAA	AGGAACCA	27560
9343	1687	CUCAAACU C CAUUAACG	9185	CGUUAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGUUUGAG	27561
9347	1683	AACUCCAU U AACGUCUC	9186	GAGACGUU CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAGUU	27562
9348	1682	ACUCCAUU A ACGUCUCU	9187	AGAGACGU CUGAUGAG	GCCGUUAGGC	CGAA	AAUGGAGU	27563
9353	1677	AUUAACGU C UCUCUGUU	9188	AACAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	ACGUUAUU	27564
9355	1675	UAACGUCU C UCUGUUC	9189	GGAACAGA CUGAUGAG	GCCGUUAGGC	CGAA	AGACGUUA	27565
9357	1673	ACGUCUCU C UGUUCCUC	9190	GAGGAACA CUGAUGAG	GCCGUUAGGC	CGAA	AGAGACGU	27566
9361	1669	CUCUCUGU U CCUCCACA	9191	UGUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA	ACAGAGAG	27567
9362	1668	UCUCUGUU C CUCCACAC	9192	GUGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AACAGAGA	27568
9365	1665	CUGUCCU C CACACAGU	9193	ACUGUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AGGAACAG	27569
9374	1656	CACACAGU A CUUCCAGC	9194	GCUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ACUGUGUG	27570
9377	1653	ACAGUACU U CCAGCACU	9195	AGUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA	AGUACUGU	27571
9378	1652	CAGUACUU C CAGCACUG	9196	CAGUCUG CUGAUGAG	GCCGUUAGGC	CGAA	AAGUACUG	27572
9389	1641	GCACUGCU C CAAGGGAG	9197	CUCCCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGCAGUGC	27573
9400	1630	AGGGAGGU U GAGGUCCA	9198	UGGACCUC CUGAUGAG	GCCGUUAGGC	CGAA	ACCUCUCC	27574
9406	1624	GUUGAGGU C CAUGAAC	9199	GGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA	ACCUCAAC	27575
9418	1612	GAACCACU C ACGAUGGA	9200	UCCAUUGU CUGAUGAG	GCCGUUAGGC	CGAA	AGUGUUC	27576
9437	1593	AAGAACGU C UUUGUUC	9201	GGAACAAA CUGAUGAG	GCCGUUAGGC	CGAA	ACGUUCUU	27577
9439	1591	GAACGUCU U UGUUCCAA	9202	UUGGAACA CUGAUGAG	GCCGUUAGGC	CGAA	AGACGUUC	27578
9440	1590	AACGUCUU U GUUCCAAC	9203	GUUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA	AAGACGUU	27579
9443	1587	GUCUUUGU U CCAACAGU	9204	ACUGUUG CUGAUGAG	GCCGUUAGGC	CGAA	ACAAAGAC	27580
9444	1586	UCUUUGUU C CAACAGUC	9205	GACUGUG CUGAUGAG	GCCGUUAGGC	CGAA	AACAAAGA	27581
9452	1578	CCAACAGU C AUCACGUA	9206	UACUGAU CUGAUGAG	GCCGUUAGGC	CGAA	ACUGUUGG	27582
9455	1575	ACAGUCAU C ACGUAGUA	9207	UACUACGU CUGAUGAG	GCCGUUAGGC	CGAA	AUGACUGU	27583
9460	1570	CAUCACGU A GUAUGCAU	9208	AUGCAUAC CUGAUGAG	GCCGUUAGGC	CGAA	ACGUAGUG	27584
9463	1567	CACGUAGU A UGCAUUGG	9209	CCAAUGCA CUGAUGAG	GCCGUUAGGC	CGAA	ACUACGUG	27585
9469	1561	GUAUGCAU U GGUGUCAA	9210	UUGACACC CUGAUGAG	GCCGUUAGGC	CGAA	AUGCAUAC	27586
9475	1555	AUUGGUGU C AAUCCUG	9211	CAGGGAUU CUGAUGAG	GCCGUUAGGC	CGAA	ACACCAAU	27587
9479	1551	GUGUCAAU C CCUGACCG	9212	CGGUCAGG CUGAUGAG	GCCGUUAGGC	CGAA	AUUGACAC	27588
9492	1538	ACCGUGGU U CACAGUCC	9213	GGACUGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACCACGGU	27589
9493	1537	CCGUGGUU C ACAGUCCA	9214	UGGACUGU CUGAUGAG	GCCGUUAGGC	CGAA	AACCACGG	27590
9499	1531	UUCACAGU C CACUGUCA	9215	UGACAGUG CUGAUGAG	GCCGUUAGGC	CGAA	ACUGUGAA	27591
9506	1524	UCCACUGU C ACCUCUCC	9216	GGAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA	ACAGUGGA	27592
9511	1519	UGUACCU C UCCAUAUU	9217	AAUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AGGUGACA	27593
9513	1517	UCACCUCU C CAUAUUCU	9218	AGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGAGUGUA	27594
9517	1513	CUCUCCAU A UUCUCCAA	9219	UUGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	AUGGAGAG	27595
9519	1511	CUCCAUAU U CUCCAAGC	9220	GCUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	AUAUGGAG	27596
9520	1510	UCCAUAUU C UCCAAGCU	9221	AGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA	AAUAUGGA	27597
9522	1508	CAUAUUCU C CAAGCUUU	9222	AAAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	AGAAUUG	27598
9529	1501	UCCAAGCU U UAGUGUGU	9223	ACACACUA CUGAUGAG	GCCGUUAGGC	CGAA	AGCUUGGA	27599
9530	1500	CCAAGCUU U AGUGUGUA	9224	UACACACU CUGAUGAG	GCCGUUAGGC	CGAA	AAGCUUGG	27600
9531	1499	CAAGCUUU A GUGUGUAU	9225	AUACACAC CUGAUGAG	GCCGUUAGGC	CGAA	AAAGCUUG	27601
9538	1492	UAGUGUGU A UGAAGGCG	9226	CGCCUUA CUGAUGAG	GCCGUUAGGC	CGAA	ACACACUA	27602
9567	1463	UGCUGAAU C UCCUGGCC	9227	GGCAGGGA CUGAUGAG	GCCGUUAGGC	CGAA	AUUCAGCA	27603

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9569	1461	CUGAAUCU C CCUGCCUG	9228	CAGGCAGG CUGAUGAG GCCGUUAGGC	CGAA AGAUUCAG	27604
9585	1445	GAGUGGCU C CAACCUGU	9229	ACAGGUUG CUGAUGAG GCCGUUAGGC	CGAA AGCCACUC	27605
9601	1429	UGUGGAGU A GUUCCGU	9230	ACGGAAAC CUGAUGAG GCCGUUAGGC	CGAA ACUCCACA	27606
9604	1426	GGAGUAGU U UCCGUGCG	9231	CGCACGGA CUGAUGAG GCCGUUAGGC	CGAA ACUACUCC	27607
9605	1425	GAGUAGU U CCGUGCGA	9232	UCGCACGG CUGAUGAG GCCGUUAGGC	CGAA AACUACUC	27608
9606	1424	AGUAGUUU C CGUGCGAC	9233	GUCGCACG CUGAUGAG GCCGUUAGGC	CGAA AAACUACU	27609
9616	1414	GUGCGACU C CACAGUAG	9234	CUACUGUG CUGAUGAG GCCGUUAGGC	CGAA AGUCGCAC	27610
9623	1407	UCCACAGU A GUUGGUCC	9235	GGACCAAC CUGAUGAG GCCGUUAGGC	CGAA ACUGUGGA	27611
9626	1404	ACAGUAGU U GGUCCAUG	9236	CAUGGACC CUGAUGAG GCCGUUAGGC	CGAA ACUACUGU	27612
9630	1400	UAGUUGGU C CAUGGACA	9237	UGUCCAUG CUGAUGAG GCCGUUAGGC	CGAA ACCAACUA	27613
9651	1379	UGGCCACU U CGUACUUG	9238	CAAGUACG CUGAUGAG GCCGUUAGGC	CGAA AGUGGCCA	27614
9652	1378	GGCCACUU C GUACUUGA	9239	UCAAGUAC CUGAUGAG GCCGUUAGGC	CGAA AAGUGGCC	27615
9655	1375	CACUUCGU A CUUGAUAU	9240	AUAUCAAG CUGAUGAG GCCGUUAGGC	CGAA ACGAAGUG	27616
9658	1372	UUCGUACU U GAUAUUCU	9241	AGAAUAUC CUGAUGAG GCCGUUAGGC	CGAA AGUACGAA	27617
9662	1368	UACUUGAU A UUCUCUUU	9242	AAAGAGAA CUGAUGAG GCCGUUAGGC	CGAA AUCAAGUA	27618
9664	1366	CUUGAUAU U CUCUUUCA	9243	UGAAAGAG CUGAUGAG GCCGUUAGGC	CGAA AUAUCAAG	27619
9665	1365	UUGAUAAU C UCUUUCAA	9244	UUGAAAGA CUGAUGAG GCCGUUAGGC	CGAA AAUAUCAA	27620
9667	1363	GAUAUUCU C UUUCAAGA	9245	UCUUGAAA CUGAUGAG GCCGUUAGGC	CGAA AGAAUAUC	27621
9669	1361	UAUUCUCU U UCAAGAUG	9246	CAUCUUGA CUGAUGAG GCCGUUAGGC	CGAA AGAGAAUA	27622
9670	1360	AUUCUCUU U CAAGAUGG	9247	CCAUCUUG CUGAUGAG GCCGUUAGGC	CGAA AAGAGAAU	27623
9671	1359	UUCUCUUU C AAGAUGGU	9248	ACCAUCUU CUGAUGAG GCCGUUAGGC	CGAA AAAGAGAA	27624
9680	1350	AAGAUGGU U CUUCCUUA	9249	AUAGGAAG CUGAUGAG GCCGUUAGGC	CGAA ACCAUCUU	27625
9681	1349	AGAUGGUU C UUCCUAUU	9250	AAUAGGAA CUGAUGAG GCCGUUAGGC	CGAA AACCAUCU	27626
9683	1347	AUGGUUCU U CCUAUUGC	9251	GCAAUAGG CUGAUGAG GCCGUUAGGC	CGAA AUGAACAU	27627
9684	1346	UGGUUCUU C CUUUGGCC	9252	GGCAAUAG CUGAUGAG GCCGUUAGGC	CGAA AAGAACCA	27628
9687	1343	UUCUUCUU A UUGCCUUG	9253	CAAGGCAA CUGAUGAG GCCGUUAGGC	CGAA AGGAAGAA	27629
9689	1341	CUUCCUAU U GCCUUGGU	9254	ACCAAGGC CUGAUGAG GCCGUUAGGC	CGAA AUAGGAAG	27630
9694	1336	UAUUGCCU U GGUAGAGC	9255	GCUCUACC CUGAUGAG GCCGUUAGGC	CGAA AGGCAUAU	27631
9698	1332	GCCUUGGU A GAGCAGGC	9256	GCCUGCUC CUGAUGAG GCCGUUAGGC	CGAA ACCAAGGC	27632
9711	1319	AGGCAAAU U UGGCGCAU	9257	AUGCGCCA CUGAUGAG GCCGUUAGGC	CGAA AUUUGCCU	27633
9712	1318	GGCAAAU U GGCGCAUG	9258	CAUGCGCC CUGAUGAG GCCGUUAGGC	CGAA AAUUGGCC	27634
9724	1306	GCAUGUGU C AAUGCUUC	9259	GAAGCAUU CUGAUGAG GCCGUUAGGC	CGAA ACACAUGC	27635
9731	1299	UCAUUGCU U CCUUUGCC	9260	GGCAAAGG CUGAUGAG GCCGUUAGGC	CGAA AGCAUUGA	27636
9732	1298	CAAUGCUU C CUUUGCCA	9261	UGGCAAAG CUGAUGAG GCCGUUAGGC	CGAA AAGCAUUG	27637
9735	1295	UGCUCUUU U UGCCAAAU	9262	AUUUGGCA CUGAUGAG GCCGUUAGGC	CGAA AGGAAGCA	27638
9736	1294	GCUUCCUU U GCCAAUAU	9263	UAUUUGGC CUGAUGAG GCCGUUAGGC	CGAA AAGGAAGC	27639
9744	1286	UGCCAAAU A AUCCGAG	9264	CUGCGGAU CUGAUGAG GCCGUUAGGC	CGAA AUUUGGCA	27640
9747	1283	CAAUAUAA C CGCAGCCG	9265	CGGCUGCG CUGAUGAG GCCGUUAGGC	CGAA AUUAUUUG	27641
9757	1273	GCAGCCGU U GCCCCAGC	9266	GCUGGGGC CUGAUGAG GCCGUUAGGC	CGAA ACGGCUGC	27642
9772	1258	GCCCCUGU C CACCACUC	9267	GAGUGGUG CUGAUGAG GCCGUUAGGC	CGAA ACAGGGGC	27643
9780	1250	CCACCACU C CUUGUCUG	9268	CAGACAAG CUGAUGAG GCCGUUAGGC	CGAA AGGUGUGG	27644
9783	1247	CCACUCCU U GUCUGCAC	9269	GUGCAGAC CUGAUGAG GCCGUUAGGC	CGAA AGGAGUGG	27645
9786	1244	CUCCUUGU C UGCACACA	9270	UGUGUGCA CUGAUGAG GCCGUUAGGC	CGAA ACAAGGAG	27646
9805	1225	AGCUGGGU C AGCACGUU	9271	AACGUGCU CUGAUGAG GCCGUUAGGC	CGAA ACCCAGCU	27647
9813	1217	CAGCACGU U UGUCAUUG	9272	CAAUGACA CUGAUGAG GCCGUUAGGC	CGAA ACGUGCUG	27648
9814	1216	AGCACGUU U GUCAUUGU	9273	ACAAUGAC CUGAUGAG GCCGUUAGGC	CGAA AACGUGCU	27649
9817	1213	ACGUUUGU C AUUGUGAG	9274	CUCACAAU CUGAUGAG GCCGUUAGGC	CGAA ACAAACGU	27650
9820	1210	UUUGUCAU U GUGAGCUU	9275	AAGCUCAC CUGAUGAG GCCGUUAGGC	CGAA AUGACAAU	27651
9828	1202	UGUGAGCU U CUCCCAUG	9276	CAUGGGAG CUGAUGAG GCCGUUAGGC	CGAA AGCUCACA	27652
9829	1201	GUGAGCUU C UCCCAUGG	9277	CCAUGGGA CUGAUGAG GCCGUUAGGC	CGAA AAGCUCAC	27653
9831	1199	GAGCUUCU C CCAUGGUC	9278	GACCAUGG CUGAUGAG GCCGUUAGGC	CGAA AGAAGCUC	27654
9839	1191	CCCAUGGU C GGGCACGC	9279	GCGUGCCC CUGAUGAG GCCGUUAGGC	CGAA ACCAUGGG	27655
9852	1178	ACGCAGCU U UGGUGGAG	9280	CUCCACCA CUGAUGAG GCCGUUAGGC	CGAA AGCUGCGU	27656
9853	1177	CGCAGCUU U GGUGGAGA	9281	UCUCCACC CUGAUGAG GCCGUUAGGC	CGAA AAGCUGCG	27657
9865	1165	GGAGAGAU C GCUGACGG	9282	CCGUCAGC CUGAUGAG GCCGUUAGGC	CGAA AUCUCUCC	27658
9875	1155	CUGACGGU A GCCAAUAU	9283	UAUUUGGC CUGAUGAG GCCGUUAGGC	CGAA ACCGUCAG	27659
9883	1147	AGCCAAAU A GCAAUAAC	9284	GUUAUUGC CUGAUGAG GCCGUUAGGC	CGAA AUUUGGCU	27660
9889	1141	AUAGCAAU A ACUGCGGA	9285	UCCGACAG CUGAUGAG GCCGUUAGGC	CGAA AUUGCUAU	27661
9901	1129	GCGGACCU C UGCCAGGU	9286	ACCUGGCA CUGAUGAG GCCGUUAGGC	CGAA AGGUCGCG	27662
9910	1120	UGCCAGGU U GACCGCCU	9287	AGGCGGUC CUGAUGAG GCCGUUAGGC	CGAA ACCUGGCA	27663
9919	1111	GACCGCCU C CAUAUUCA	9288	UGAAUAUG CUGAUGAG GCCGUUAGGC	CGAA AGGCGGUC	27664
9923	1107	GCCUCCAU A UUCAUCAU	9289	AUGAUGAA CUGAUGAG GCCGUUAGGC	CGAA AUGGAGGC	27665

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9925	1105	CUCCAUAU U CAUCAUCU	9290	AGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA AUAUGGAG	27666
9926	1104	UCCAUAUU C AUCAUCUU	9291	AAGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA AAUAUGGA	27667
9929	1101	AUAUUCAU C AUCUUCAC	9292	GUGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUUAU	27668
9932	1098	UUCAUCAU C UUCACAUC	9293	GAUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGAA	27669
9934	1096	CAUCAUCU U CACAUCGA	9294	UCCAUGUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGAUG	27670
9935	1095	AUCAUCUU C ACAUCGAU	9295	AUCGAUGU CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGAU	27671
9940	1090	CUUCACAU C GAUGGUAG	9296	CUACCAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUGAAG	27672
9947	1083	UCGAUGGU A GGCUGUC	9297	GACAAGCC CUGAUGAG	GCCGUUAGGC	CGAA ACCAUCGA	27673
9952	1078	GGUAGGCU U GUCCUAG	9298	CUAAGGAC CUGAUGAG	GCCGUUAGGC	CGAA ACAUACC	27674
9955	1075	AGGCUGU C CUUAGACA	9299	UGUCUAG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGCCU	27675
9958	1072	CUUGUCCU U AGACAUGA	9300	UCAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AGGACAAG	27676
9959	1071	UUGUCCUU A GACAUGAU	9301	AUCAUGUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGACAA	27677
9968	1062	GACAUGAU A GUCACGCA	9302	UGCUGAC CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGUC	27678
9971	1059	AUGAUGU C ACGCAGCU	9303	AGCUGCGU CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAU	27679
9982	1048	GCAGCUGU C GCCUUCGA	9304	UCGAAGGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUGC	27680
9987	1043	UGUCGCCU U CGAGAACC	9305	GGUUCUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGCGACA	27681
9988	1042	GUCGCCUU C GAGAACCA	9306	UGGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA AAGGCGAG	27682
10000	1030	AACCAAAU C CACCCAUG	9307	CAUGGGUG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGUU	27683
10010	1020	ACCCAAGU U GCUCCAGA	9308	UCUGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACAUGGGU	27684
10014	1016	AUGUUGCU C CAGACACU	9309	AGUGUCUG CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAU	27685
10023	1007	CAGACACU C CUUCCAAG	9310	CUUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUCUG	27686
10026	1004	ACACUCCU U CCAAGAAG	9311	CUUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGUGU	27687
10027	1003	CACUCCUU C CAAGAAGU	9312	ACUUCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAGUG	27688
10036	994	CAAGAAGU C UCUGUUGC	9313	GCAACAGA CUGAUGAG	GCCGUUAGGC	CGAA ACUUCUUG	27689
10038	992	AGAAGUCU C UGUUGCUC	9314	GAGCAACA CUGAUGAG	GCCGUUAGGC	CGAA AGACUUCU	27690
10042	988	GUCUCUGU U GCUCAUUC	9315	GAUUGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACAGAGAC	27691
10046	984	CUGUUGCU C AUUCCAAG	9316	CUUGGAAU CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAG	27692
10049	981	UUGCUCAU U CCAAGGCA	9317	UGCCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AUGAGCAA	27693
10050	980	UGCUCAUU C CAAGGCAG	9318	CUGCCUUG CUGAUGAG	GCCGUUAGGC	CGAA AAUGAGCA	27694
10060	970	AAGGCAGU U GAAGCUGU	9319	ACAGCUUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGCCUU	27695
10069	961	GAAGCUGU A AGCUGGGG	9320	CCCCAGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAGCUUC	27696
10092	938	AAAGCAAU A GCACGACA	9321	UGUCGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUUU	27697
10110	920	ACACAACU C UCUGCAUG	9322	CAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA AGUUGUGU	27698
10112	918	ACAACUCU C UGCAUGGU	9323	ACCAUGCA CUGAUGAG	GCCGUUAGGC	CGAA AGAGUUGU	27699
10123	907	CAUGGUGU U GCUCCAA	9324	UUGGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ACACCAUG	27700
10127	903	GUGUUGCU C CCAAGCAU	9325	AUGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA AGCAACAC	27701
10136	894	CCAAGCAU C CAACCAAU	9326	AUUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCUUGG	27702
10165	865	CAGGGCAU A UCCAGGGU	9327	ACCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCUG	27703
10167	863	GGGCAUAU C CAGGGUUC	9328	GAACCCUG CUGAUGAG	GCCGUUAGGC	CGAA AUAUGCCC	27704
10174	856	UCCAGGGU U CCUCAAGA	9329	UCUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCCUGGA	27705
10175	855	CCAGGGUU C CUCAAGAU	9330	AUCUUGAG CUGAUGAG	GCCGUUAGGC	CGAA AACCCUGG	27706
10178	852	GGGUUCCU C AAGAUGCA	9331	UGGAUCUU CUGAUGAG	GCCGUUAGGC	CGAA AGGAACCC	27707
10184	846	CUCAAGAU C CAUGAUUC	9332	GAAUCAUG CUGAUGAG	GCCGUUAGGC	CGAA AUCUUGAG	27708
10191	839	UCCAUGAU U CUGUUUUU	9333	AAAAACAG CUGAUGAG	GCCGUUAGGC	CGAA AUCAUGGA	27709
10192	838	CCAUGAUU C UGUUUUUA	9334	UAAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AAUUAUGG	27710
10196	834	GAUUCUGU U UUAACCAA	9335	UUGGUAAA CUGAUGAG	GCCGUUAGGC	CGAA ACAGAAUC	27711
10197	833	AUUCUGUU U UUAACCAA	9336	UUUGGUAA CUGAUGAG	GCCGUUAGGC	CGAA AACAGAAU	27712
10198	832	UUCUGUUU U UACCAAU	9337	AUUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA AAACAGAA	27713
10199	831	UCUGUUUU U ACCAAUA	9338	UAUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA AAAACAGA	27714
10200	830	CUGUUUUU A CCAAAUAC	9339	GUUUUUGG CUGAUGAG	GCCGUUAGGC	CGAA AAAAACAG	27715
10207	823	UACCAAU A CCUUGUGG	9340	CCACAAGG CUGAUGAG	GCCGUUAGGC	CGAA AUUUGGUA	27716
10211	819	AAAUACCU U GUGGCCUU	9341	AAGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA AGGUUUUU	27717
10219	811	UGUGGCCU U GGUGCUGU	9342	ACAGACC CUGAUGAG	GCCGUUAGGC	CGAA AGGCCACA	27718
10228	802	GGUGCUGU C CAUCCAAG	9343	CUUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ACAGCACC	27719
10232	798	CUGUCCAU C CAAGCCCC	9344	GGGGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUGGACAG	27720
10243	787	AGCCCCCU U CUUGUUCG	9345	CGAACAAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGGGCU	27721
10244	786	GCCCCCUU C UUGUUCGC	9346	GCGAACA CUGAUGAG	GCCGUUAGGC	CGAA AAGGGGGC	27722
10246	784	CCCCUUCU U GUUCGCUA	9347	UAGCGAAC CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGGG	27723
10249	781	CUUCUUGU U CGUAGAG	9348	CUCUAGCG CUGAUGAG	GCCGUUAGGC	CGAA ACAAGAAG	27724
10250	780	UUUCUUGU C GCUAGAGU	9349	ACUCUAGC CUGAUGAG	GCCGUUAGGC	CGAA AACAAGAA	27725
10254	776	UGUUCGCU A GAGUGCUU	9350	AAGCACTC CUGAUGAG	GCCGUUAGGC	CGAA AGCGAACA	27726
10262	768	AGAGUGCU U UCUCGGUG	9351	CACGGAGA CUGAUGAG	GCCGUUAGGC	CGAA AGCACUCU	27727

Table VIII

10263	767	GAGUGCUU U CUCCGUGU	9352	ACACGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAGCACUC	27728
10264	766	AGUGCUUU C UCCGUGUG	9353	CACACGGA CUGAUGAG	GCCGUUAGGC	CGAA AAAGCACU	27729
10266	764	UGCUIUCU C CGUGUGUC	9354	GACACACG CUGAUGAG	GCCGUUAGGC	CGAA AGAAAGCA	27730
10274	756	CCGUGUGU C UGCACUGU	9355	ACAGUGCA CUGAUGAG	GCCGUUAGGC	CGAA ACACACGG	27731
10283	747	UGCACUGU C AGUGACCU	9356	AGGUCACU CUGAUGAG	GCCGUUAGGC	CGAA ACAGUGCA	27732
10292	738	AGUGACCU C CGACUGCG	9357	CGCAGUCG CUGAUGAG	GCCGUUAGGC	CGAA AGGUCACU	27733
10302	728	GACUGCGU C UUGAGUGG	9358	CCACUCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGCAGUC	27734
10304	726	CUGCGUCU U GAGUGGCG	9359	CGCCACUC CUGAUGAG	GCCGUUAGGC	CGAA AGACGCAG	27735
10316	714	UGGCGUGU C UUGGUGCA	9360	UGCACCAA CUGAUGAG	GCCGUUAGGC	CGAA ACACGCCA	27736
10318	712	GCGUGUCU U GGUGCAUC	9361	GAUGCACC CUGAUGAG	GCCGUUAGGC	CGAA AGACACGC	27737
10326	704	UGGUGCAU C UUCCAUA	9362	GUAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA AUGCACC	27738
10328	702	GUGCAUCU U CCAUACCU	9363	AGGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAUGCAC	27739
10329	701	UGCAUCUU C CAUACCU	9364	CAGGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAUGCA	27740
10333	697	UCUCCAUA A CCUGACGU	9365	ACGUCAGG CUGAUGAG	GCCGUUAGGC	CGAA AUGGAAGA	27741
10342	688	CCUGACGU A GACUGCUG	9366	CAGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA ACGUCAGG	27742
10354	676	UGCUGACU U UGUGCACC	9367	GGUGCACA CUGAUGAG	GCCGUUAGGC	CGAA AGUCAGCA	27743
10355	675	GCUGACUU U GUGCACA	9368	UGGUGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGUCAGC	27744
10369	661	CCAACAGU C GAUGUCUU	9369	AAGACAUC CUGAUGAG	GCCGUUAGGC	CGAA ACUGUUGG	27745
10375	655	GUCGAUGU C UUCUGGAU	9370	AUCCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ACAUCGAC	27746
10377	653	CGAUGUCU U CUGGAUCA	9371	UGAUCCAG CUGAUGAG	GCCGUUAGGC	CGAA AGACAUCG	27747
10378	652	GAUGUCUU C UGGAUCAU	9372	AUGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA AAGACAUC	27748
10384	646	UUCUGGAU C AUUACCAG	9373	CUGGUAAU CUGAUGAG	GCCGUUAGGC	CGAA AUCCAGAA	27749
10387	643	UGGAUCAU U ACCAGCCG	9374	CGGCUUGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUCCA	27750
10388	642	GGAUCAUU A CCAGCCGA	9375	UCGGCUGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGAUCC	27751
10410	620	CUGGGCAU U CAUAAGUG	9376	CAUUAUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCGAG	27752
10411	619	UGGGCAUU C AUAAGUGA	9377	UCACUUAU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCA	27753
10414	616	GCAUUCAU A AGUGAUAG	9378	CUAUCACU CUGAUGAG	GCCGUUAGGC	CGAA AUGAAUGC	27754
10421	609	UAAGUGAU A GUAUCAUC	9379	GAUGAUAC CUGAUGAG	GCCGUUAGGC	CGAA AUCACUUA	27755
10424	606	GUGAUAGU A UCAUCGCA	9380	UGCGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACUAUCAC	27756
10426	604	GAUAGUAU C AUCGCACA	9381	UGUGCGAU CUGAUGAG	GCCGUUAGGC	CGAA AUACUAUC	27757
10429	601	AGUAUCAU C GCACAUGU	9382	ACAUGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUGAUACU	27758
10438	592	GCACAUGU A UCCCACAU	9383	AUGUGGGA CUGAUGAG	GCCGUUAGGC	CGAA ACAUGUGC	27759
10440	590	ACAUGUAU C CCACAUC	9384	GGAUGUGU CUGAUGAG	GCCGUUAGGC	CGAA AUACAUGU	27760
10447	583	UCCCAU C CAUUGCUC	9385	GAGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA AUGUGGGA	27761
10451	579	ACAUCAU U GCUCUGAC	9386	GUCAGAGC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAUGU	27762
10455	575	CCAUUGCU C UGACAAUG	9387	CAUUGUCA CUGAUGAG	GCCGUUAGGC	CGAA AGCAAUGG	27763
10467	563	CAAUGCAU A GGUUCUUU	9388	AAAGAACC CUGAUGAG	GCCGUUAGGC	CGAA AUGCAUUG	27764
10471	559	GCAUAGGU U CUUCCAG	9389	CUGGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ACCUAUGC	27765
10472	558	CAUAGGUU C UUUCCAGC	9390	GCUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA AACCUAUG	27766
10474	556	UAGGUUCU U UCCAGCAG	9391	CUGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGAACCUA	27767
10475	555	AGGUUCUU U CCAGCAGC	9392	GCUCUGUG CUGAUGAG	GCCGUUAGGC	CGAA AAGAACC	27768
10476	554	GGUUCUUU C CAGCAGCU	9393	AGCUCUGU CUGAUGAG	GCCGUUAGGC	CGAA AAAGAACC	27769
10487	543	GCAGUCGU U GGAUUCGU	9394	ACGAUUC CUGAUGAG	GCCGUUAGGC	CGAA AAGCUGC	27770
10493	537	GUUGGAAU C GUGAUGAC	9395	GUCAUCAC CUGAUGAG	GCCGUUAGGC	CGAA AUUCCAAC	27771
10504	526	GAUGACAU C UGUGACGU	9396	ACGUCACA CUGAUGAG	GCCGUUAGGC	CGAA AUGUCAUC	27772
10513	517	UGUGACGU C AGUAGCAU	9397	AUGCUACU CUGAUGAG	GCCGUUAGGC	CGAA ACGUCACA	27773
10517	513	ACGUCAGU A GCAUUUAC	9398	GUAAAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGACGU	27774
10522	508	AGUAGCAU U UACCGUCA	9399	UGACGGUA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUACU	27775
10523	507	GUAGCAUU U ACCGUCAU	9400	AUGACGGU CUGAUGAG	GCCGUUAGGC	CGAA AAUGCUAC	27776
10524	506	UAGCAUUU A CCGUCAUC	9401	GUAAGCGU CUGAUGAG	GCCGUUAGGC	CGAA AAAUGCUA	27777
10529	501	UUUACCGU C AUCAUCAC	9402	GUGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACGGUAAA	27778
10532	498	ACCGUCAU C AUACCUU	9403	AAGGUGAU CUGAUGAG	GCCGUUAGGC	CGAA AUGACGGU	27779
10535	495	GUCAUCAU C ACCUUCU	9404	GGGAAGGU CUGAUGAG	GCCGUUAGGC	CGAA AUGAUGAC	27780
10540	490	CAUCACCU U CCCUUGGA	9405	UCCAAGGG CUGAUGAG	GCCGUUAGGC	CGAA AGGUGAUG	27781
10541	489	AUCACCUU C CCUUGGAA	9406	UUCCAAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGGUGAU	27782
10545	485	CCUUCUCCU U GGAAGUUA	9407	UAACUUC CUGAUGAG	GCCGUUAGGC	CGAA AGGGAAGG	27783
10552	478	UUGGAAGU U AGAGAGGG	9408	CCCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA ACUUCCAA	27784
10553	477	UGGAAGUU A GAGAGGGU	9409	ACCCUCUC CUGAUGAG	GCCGUUAGGC	CGAA AACUUCUA	27785
10562	468	GAGAGGGU A ACUGCUCC	9410	GGAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA ACCUCUC	27786
10569	461	UAACUGCU C CUACGUG	9411	CAGCGUAG CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUUA	27787
10572	458	CUGCUCCU A CGCUGGCG	9412	CGCCAGCG CUGAUGAG	GCCGUUAGGC	CGAA AGGAGCAG	27788
10583	447	CUGGCGAU C AGGCCAAU	9413	AUUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCGCCAG	27789

Table VIII

10592	438	AGGCCAAU C AUGACUGC	9414	GCAGUCAU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGCCU	27790
10604	426	ACUGCAAU U CCGGUCUU	9415	AAGACCGG CUGAUGAG	GCCGUUAGGC	CGAA AUUGCAGU	27791
10605	425	CUGCAAUU C CGGUCUUU	9416	AAAGACCG CUGAUGAG	GCCGUUAGGC	CGAA AAUUGCAG	27792
10610	420	AUUCCGGU C UUUCUCC	9417	GGAGGAAA CUGAUGAG	GCCGUUAGGC	CGAA ACCGGAAU	27793
10612	418	UCCGGUCU U UCCUCCUC	9418	GAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA AGACCGGA	27794
10613	417	CCGGUCUU U CCUCCUCU	9419	AGAGGAGG CUGAUGAG	GCCGUUAGGC	CGAA AAGACCGG	27795
10614	416	CGGUCUUU C CUCCUCUU	9420	AAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGACCG	27796
10617	413	UCUUUCCU C CUCUUUUC	9421	GAAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AGGAAAGA	27797
10620	410	UUUCUCCU C UUUCUUUU	9422	AAAGAAAA CUGAUGAG	GCCGUUAGGC	CGAA AGGAGGAA	27798
10622	408	CCUCCUCU U UUCUUUUG	9423	CAAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGAG	27799
10623	407	CUCCUCUU U UCUUUUGU	9424	ACAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGAG	27800
10624	406	UCCUCUUU U CUUUUGUU	9425	AACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAAGAGGA	27801
10625	405	CCUCUUUU C UUUUGUUU	9426	AAACAAAA CUGAUGAG	GCCGUUAGGC	CGAA AAAAGAGG	27802
10627	403	UCUUUUCU U UUGUUUUG	9427	CAAAACAA CUGAUGAG	GCCGUUAGGC	CGAA AGAAAAGA	27803
10628	402	CUUUUCUU U UGUUUUGA	9428	UCAAAACA CUGAUGAG	GCCGUUAGGC	CGAA AAGAAAAG	27804
10629	401	UUUUUCUU U GUUUUGAG	9429	CUCAAAAC CUGAUGAG	GCCGUUAGGC	CGAA AAAGAAAA	27805
10632	398	UCUUUUGU U UUGAGCUC	9430	GAGCUCAA CUGAUGAG	GCCGUUAGGC	CGAA ACAAAAAG	27806
10633	397	CUUUUGUU U UGAGCUCC	9431	GGAGCUCA CUGAUGAG	GCCGUUAGGC	CGAA AACAAGAG	27807
10634	396	UUUUGUUU U GAGCUCG	9432	CGGAGCUC CUGAUGAG	GCCGUUAGGC	CGAA AAACAAAA	27808
10640	390	UUUGAGCU C CGCCGAUU	9433	AAUCGGCG CUGAUGAG	GCCGUUAGGC	CGAA AGCUCAAA	27809
10648	382	CCGCCGAU U GAUAGCAC	9434	GUGCUAUC CUGAUGAG	GCCGUUAGGC	CGAA AUCGGCGG	27810
10652	378	CGAUUGAU A GCACUGGU	9435	ACCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA AUCAAUCG	27811
10661	369	GCACUGGU C AAGGUCCC	9436	GGGACCUU CUGAUGAG	GCCGUUAGGC	CGAA ACCAGUGC	27812
10667	363	GUCAAGGU C CCUAGUUC	9437	GAACUAGG CUGAUGAG	GCCGUUAGGC	CGAA ACCUUGAC	27813
10671	359	AGGUCCCU A GUUCUUUC	9438	GAAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA AGGGACCU	27814
10674	356	UCCCUAGU U CCUUCUUA	9439	UAAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA ACUAGGGA	27815
10675	355	CCCUAGUU C CUUCUUA	9440	UUAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA AACUAGGG	27816
10678	352	UAGUCCU U CUUAAAAC	9441	GUUUUAAAG CUGAUGAG	GCCGUUAGGC	CGAA AAGGAACU	27817
10679	351	AGUUCUUU C UUA AAAACU	9442	AGUUUUAA CUGAUGAG	GCCGUUAGGC	CGAA AAGGAACU	27818
10681	349	UUCCUUUU U AAAACUCA	9443	UGAGUUUU CUGAUGAG	GCCGUUAGGC	CGAA AGAAGGAA	27819
10682	348	UCCUUUUU A AAACUCAG	9444	CUGAGUUU CUGAUGAG	GCCGUUAGGC	CGAA AAGAAGGA	27820
10688	342	UUA AAAACU C AGAAGGUG	9445	CACCUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGUUUUAA	27821
10698	332	GAAGGUGU U UCAUCGCU	9446	AGCGAUGA CUGAUGAG	GCCGUUAGGC	CGAA ACACCUUC	27822
10699	331	AAGGUGUU U CAUCGCU	9447	CAGCGAUG CUGAUGAG	GCCGUUAGGC	CGAA AACACCUU	27823
10700	330	AGGUGUUU C AUCGCU	9448	ACAGCGAU CUGAUGAG	GCCGUUAGGC	CGAA AAACACCU	27824
10703	327	UGUUUCAU C GCUGUUUG	9449	CAAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA AUGAAACA	27825
10709	321	AUCGCGUU U UGUUUUGU	9450	AACAAACA CUGAUGAG	GCCGUUAGGC	CGAA ACAGCGAU	27826
10710	320	UCGCGUUU U GUUUUGUC	9451	GAACAAAC CUGAUGAG	GCCGUUAGGC	CGAA AACAGCGA	27827
10713	317	CUGUUUGU U UGUUCACA	9452	UGUGAACA CUGAUGAG	GCCGUUAGGC	CGAA ACAAACAG	27828
10714	316	UGUUUGUU U GUUCACAC	9453	GUGUGAAC CUGAUGAG	GCCGUUAGGC	CGAA AACAAACA	27829
10717	313	UUGUUUGU U CACACCUC	9454	GAGGUGUG CUGAUGAG	GCCGUUAGGC	CGAA ACAAACAA	27830
10718	312	UGUUUGUU C ACACCUCU	9455	AGAGGUGU CUGAUGAG	GCCGUUAGGC	CGAA AACAAACA	27831
10725	305	UCACACCU C UCCAUCGA	9456	UCGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA AGGUGUGA	27832
10727	303	ACACCUU C CAUCGAUC	9457	GAUCGAUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGUGU	27833
10731	299	CUCUCCAU C GAUCACG	9458	GCUGGAUC CUGAUGAG	GCCGUUAGGC	CGAA AUGGAGAG	27834
10735	295	CCAUCGAU C CAGCACUG	9459	CAGUGCUG CUGAUGAG	GCCGUUAGGC	CGAA AUCGAGUG	27835
10746	284	GCACUGCU C GGGUCGGA	9460	UCCGACCC CUGAUGAG	GCCGUUAGGC	CGAA AGCAGUGC	27836
10751	279	GCUCGGGU C GGAGCAAU	9461	AUUGCUCC CUGAUGAG	GCCGUUAGGC	CGAA ACCCGAGC	27837
10760	270	GGAGCAAU U GCUGUGAA	9462	UUCACAGC CUGAUGAG	GCCGUUAGGC	CGAA AUUGCUCU	27838
10800	230	ACACAAAU C GUUUUGGC	9463	GCCAAUAC CUGAUGAG	GCCGUUAGGC	CGAA AUUUUGUU	27839
10803	227	CAAUUCGU A UUGGCCCC	9464	GGGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA ACGAUUUG	27840
10805	225	AAUCGUUU U GGCCCCUU	9465	AAGGGGCC CUGAUGAG	GCCGUUAGGC	CGAA AUACGAUU	27841
10813	217	UGGCCCCU U GCCGUCGA	9466	UCCGAGGC CUGAUGAG	GCCGUUAGGC	CGAA AGGGGCCA	27842
10819	211	CUUGCCGU C GAUCAGGC	9467	GCCUGAUC CUGAUGAG	GCCGUUAGGC	CGAA ACGGCAAG	27843
10823	207	CCGUCGAU C AGGCUCAA	9468	UUGAGCCU CUGAUGAG	GCCGUUAGGC	CGAA AUCGACGG	27844
10829	201	AUCAGGCU C AACAUAGC	9469	GCUAUGUU CUGAUGAG	GCCGUUAGGC	CGAA AGCCUGAU	27845
10835	195	CUCAACAU A GCCCUCUU	9470	AAGAGGGC CUGAUGAG	GCCGUUAGGC	CGAA AUGUUGAG	27846
10841	189	AUAGCCCU C UUCAGUCC	9471	GGACUGAA CUGAUGAG	GCCGUUAGGC	CGAA AGGGCUAU	27847
10843	187	AGCCUCUU U CAGUCCAA	9472	UUGGACUG CUGAUGAG	GCCGUUAGGC	CGAA AGAGGGCU	27848
10844	186	GCCUCUUU C AGUCCAAU	9473	AUUGGACU CUGAUGAG	GCCGUUAGGC	CGAA AAGAGGGC	27849
10848	182	UCUUCAGU C CAAUCAAG	9474	CUUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA ACUGAAGA	27850
10853	177	AGUCCAAU C AAGGACAA	9475	UUGUCCUU CUGAUGAG	GCCGUUAGGC	CGAA AUUGGACU	27851

Table VIII

10874	156	CGGGGCAU U CCGCGUUU	9476	AAACGCGG CUGAUGAG	GCCGUUAGGC	CGAA AUGCCCCG	27852
10875	155	GGGGCAU C CGCGUUU	9477	AAAACGCG CUGAUGAG	GCCGUUAGGC	CGAA AAUGCCCC	27853
10881	149	UCCCGCGU U UAGCAUA	9478	UAUGCUA CUGAUGAG	GCCGUUAGGC	CGAA ACGCGGAA	27854
10882	148	UCCGCGU U UAGCAUA	9479	AUAUGCUA CUGAUGAG	GCCGUUAGGC	CGAA AACCGGGA	27855
10883	147	CCGCGUU U AGCAUAU	9480	AAUAUGCU CUGAUGAG	GCCGUUAGGC	CGAA AAACGCGG	27856
10884	146	CGCGUUU A GCAUAUUG	9481	CAUAUGC CUGAUGAG	GCCGUUAGGC	CGAA AAAACGCG	27857
10889	141	UUUAGCAU A UUGACAGC	9482	GCUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA AUGCUAAA	27858
10891	139	UAGCAUAU U GACAGCCC	9483	GGGUGUC CUGAUGAG	GCCGUUAGGC	CGAA AUAUGCUA	27859
10904	126	GCCCGGCU C UUGCCGGG	9484	CCCGGCAA CUGAUGAG	GCCGUUAGGC	CGAA AGCCGGGC	27860
10906	124	CCGGCUCU U GCCGGGCC	9485	GGCCCGGC CUGAUGAG	GCCGUUAGGC	CGAA AGAGCCGG	27861
10917	113	CGGGCCCU C CUGGUUUC	9486	GAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA AGGGCCCG	27862
10923	107	CUCCUGGU U UCUAGAC	9487	GUCUAAGA CUGAUGAG	GCCGUUAGGC	CGAA ACCAGGAG	27863
10924	106	UCCUGGUU U CUUAGACA	9488	UGUCUAA CUGAUGAG	GCCGUUAGGC	CGAA AACCAGGA	27864
10925	105	CCUGGUU C UUAGACAU	9489	AUGUCUAA CUGAUGAG	GCCGUUAGGC	CGAA AAACCAGG	27865
10927	103	UGGUUUCU U AGACAUCG	9490	CGAUGUCU CUGAUGAG	GCCGUUAGGC	CGAA AGAAACCA	27866
10928	102	GGUUUCU A GACAUCGA	9491	UCGAUGC CUGAUGAG	GCCGUUAGGC	CGAA AAGAAACC	27867
10934	96	UUAGACAU C GAGAUCUU	9492	AAGAUCUC CUGAUGAG	GCCGUUAGGC	CGAA AUGUCUAA	27868
10940	90	AUCGAGAU C UUCGUGCU	9493	AGCACGAA CUGAUGAG	GCCGUUAGGC	CGAA AUCUCGAU	27869
10942	88	CGAGAUCU U CGUGCUA	9494	UUAGCACG CUGAUGAG	GCCGUUAGGC	CGAA AGAUCUCG	27870
10943	87	GAGAUCUU C GUGCUAAG	9495	CUUAGCAC CUGAUGAG	GCCGUUAGGC	CGAA AAGAUCUC	27871
10949	81	UUCGUGCU A AGAAACAG	9496	CUGUUUCU CUGAUGAG	GCCGUUAGGC	CGAA AGCACGAA	27872
10960	70	AAACAGCU C GCACUGUG	9497	CACAGUGC CUGAUGAG	GCCGUUAGGC	CGAA AGCUGUUU	27873
10970	60	CACUGUGU U AAUUGUUG	9498	CAACAAU CUGAUGAG	GCCGUUAGGC	CGAA ACACAGUG	27874
10971	59	ACUGUGUU A AUUGUUGU	9499	ACAACAAU CUGAUGAG	GCCGUUAGGC	CGAA AACACAGU	27875
10974	56	GUGUUAU U GUUGUUA	9500	UUAACAAC CUGAUGAG	GCCGUUAGGC	CGAA AUUAACAC	27876
10977	53	UUAAUUGU U GUAAUCC	9501	GGAUUAAC CUGAUGAG	GCCGUUAGGC	CGAA ACAAUUAA	27877
10980	50	AUUGUUGU U AAUCCUCA	9502	UGAGGAU CUGAUGAG	GCCGUUAGGC	CGAA ACAACAAU	27878
10981	49	UUGUUGUU A AUCCUCAC	9503	GUGAGGAU CUGAUGAG	GCCGUUAGGC	CGAA AACACAA	27879
10984	46	UUGUUAU C CUCACAAA	9504	UUUGUGAG CUGAUGAG	GCCGUUAGGC	CGAA AUUAACAA	27880
10987	43	UUAUCCU C ACAACAC	9505	GUGUUUGU CUGAUGAG	GCCGUUAGGC	CGAA AGGAUUA	27881
10997	33	CAAACACU A CUAAGUUU	9506	AAACUAG CUGAUGAG	GCCGUUAGGC	CGAA AGUGUUUG	27882
11000	30	ACACUACU A AGUUUGUC	9507	GACAAACU CUGAUGAG	GCCGUUAGGC	CGAA AGUAGUGU	27883
11004	26	UACUAGU U UGUCAGCU	9508	AGCUGACA CUGAUGAG	GCCGUUAGGC	CGAA ACUUAAGU	27884
11005	25	ACUAGUU U GUCAGCUC	9509	GAGCUGAC CUGAUGAG	GCCGUUAGGC	CGAA AACUUAAGU	27885
11008	22	AAGUUUGU C AGCUCACA	9510	UGUGAGCU CUGAUGAG	GCCGUUAGGC	CGAA ACAAAACU	27886
11013	17	UGUCAGCU C ACACAGGC	9511	GCCUGUGU CUGAUGAG	GCCGUUAGGC	CGAA AGCUGACA	27887

Input Sequence = AF196835\_rc. Cut

Site = UH/.

Arm Length = 8. Core Sequence = CUGAUGAG X CGAA (X = GCCGUUAGGC or other stem II)

AF196835\_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table IX

Table IX: WNV minus strand Inozyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rz Seq ID
14	11016	CUGUGUUC U CGCACCAC	9512	GUGGUGCG CUGAUGAG GCCGUUAGGC CGAA IAACACAG	27888
18	11012	GUUCUCGC A CCACCAGC	9513	GCUGGUGG CUGAUGAG GCCGUUAGGC CGAA ICGAGAAC	27889
20	11010	UCUCGCAC C ACCAGCCA	9514	UGGUGUGU CUGAUGAG GCCGUUAGGC CGAA IUGCGAGA	27890
21	11009	CUCGCACC A CCAGCCAC	9515	GUGGUGUG CUGAUGAG GCCGUUAGGC CGAA IGUGCGAG	27891
23	11007	CGCACCAC C AGCCACCA	9516	UGGUGGCU CUGAUGAG GCCGUUAGGC CGAA IUGGUGCG	27892
24	11006	GCACCACC A GCCACCAU	9517	AUGGUGGC CUGAUGAG GCCGUUAGGC CGAA IGUGGUGC	27893
27	11003	CCACCAGC C ACCAUUGU	9518	ACAAUGGU CUGAUGAG GCCGUUAGGC CGAA ICUGGUGG	27894
28	11002	CACCAGCC A CCAUUGUC	9519	GACAAUGG CUGAUGAG GCCGUUAGGC CGAA ICUGGUGG	27895
30	11000	CCAGCCAC C AUUGUCGG	9520	CCGACAAU CUGAUGAG GCCGUUAGGC CGAA IUGGUGG	27896
31	10999	CAGCCACC A UUGUCGGC	9521	GCCGACAA CUGAUGAG GCCGUUAGGC CGAA IGUGGUG	27897
42	10988	GUCGGCGC A CUGUGCCG	9522	CGGCACAG CUGAUGAG GCCGUUAGGC CGAA ICGCCGAC	27898
44	10986	CGGCGCAC U GUGCCGUG	9523	CACGGCAC CUGAUGAG GCCGUUAGGC CGAA IUGCCGCG	27899
49	10981	CACUGUGC C GUGUGGCU	9524	AGCCACAC CUGAUGAG GCCGUUAGGC CGAA ICACAGUG	27900
57	10973	CGUGUGGC U GGUUGUGC	9525	GCACAACC CUGAUGAG GCCGUUAGGC CGAA ICCACACG	27901
66	10964	GGUUGUGC A GAGCAGAA	9526	UUCUGCUC CUGAUGAG GCCGUUAGGC CGAA ICACAACC	27902
71	10959	UGCAGAGC A GAAGAUCU	9527	AGAUCUUC CUGAUGAG GCCGUUAGGC CGAA ICUCUGCA	27903
79	10951	AGAAGAUU U CCUAGUCU	9528	AGACUAGG CUGAUGAG GCCGUUAGGC CGAA IAUCUUCU	27904
81	10949	AGAUCUC C UAGUCUAU	9529	AUAGACUA CUGAUGAG GCCGUUAGGC CGAA IAGAUCUU	27905
82	10948	AGAUCCU U AGUCUAUC	9530	GAUAGACU CUGAUGAG GCCGUUAGGC CGAA IAGAUUCU	27906
87	10943	UCCUAGUC U AUCCAGG	9531	CCUGGGAU CUGAUGAG GCCGUUAGGC CGAA IACUAGGA	27907
91	10939	AGUCUAUC C CAGGUGUC	9532	GACACCUG CUGAUGAG GCCGUUAGGC CGAA IAUAGACU	27908
92	10938	GUCUAUCC C AGGUGUCA	9533	UGACACCU CUGAUGAG GCCGUUAGGC CGAA IGAUAGAC	27909
93	10937	UCUAUCCC A GGUGUCAA	9534	UUGACACC CUGAUGAG GCCGUUAGGC CGAA IGGAUAGA	27910
100	10930	CAGGUGUC A AUUAGCUG	9535	CAGCAUAU CUGAUGAG GCCGUUAGGC CGAA IACACCUG	27911
107	10923	CAUAUAGC U GUUUUGUU	9536	AACAAAAC CUGAUGAG GCCGUUAGGC CGAA ICAUAUUG	27912
131	10899	UUUGUGGC A CGGGGUCU	9537	AGACCCCG CUGAUGAG GCCGUUAGGC CGAA ICCACAAA	27913
139	10891	ACGGGGUC U CCACUAAC	9538	GUUAGUGG CUGAUGAG GCCGUUAGGC CGAA IACCCCGU	27914
141	10889	GGGGUCUC C ACUAACCU	9539	AGGUUAGU CUGAUGAG GCCGUUAGGC CGAA IAGACCCC	27915
142	10888	GGGUCUCC A CUAACCUC	9540	GAGGUUAG CUGAUGAG GCCGUUAGGC CGAA IGAGACCC	27916
144	10886	GUCUCCAC U AACCUUA	9541	UAGAGGUU CUGAUGAG GCCGUUAGGC CGAA IUGGAGAC	27917
148	10882	CCACUAAC C UCAGUCC	9542	GGACUAGA CUGAUGAG GCCGUUAGGC CGAA IUUAGUGG	27918
149	10881	CACUAACC U CUAGUCCU	9543	AGGACUAG CUGAUGAG GCCGUUAGGC CGAA IGUUGUG	27919
151	10879	CUAACCUC U AGUCCUUC	9544	GAAGGACU CUGAUGAG GCCGUUAGGC CGAA IAGGUUAG	27920
156	10874	CUCUAGUC C UUUCCUG	9545	CAGGGGAA CUGAUGAG GCCGUUAGGC CGAA IACUAGAG	27921
157	10873	UCUAGUCC U UCCCCUGA	9546	UCAGGGGA CUGAUGAG GCCGUUAGGC CGAA IGACUAGA	27922
160	10870	AGUCCUUC C CCUGACCU	9547	AGGUCAGG CUGAUGAG GCCGUUAGGC CGAA IAGGACU	27923
161	10869	GUCUCCUC C CUGACCUA	9548	UAGGUCAG CUGAUGAG GCCGUUAGGC CGAA IGAAGGAC	27924
162	10868	UCCUCCCC C UGACCUAC	9549	GUAGGUCA CUGAUGAG GCCGUUAGGC CGAA IGGAAGGA	27925
163	10867	CCUCCCCC U GACCUACA	9550	UGUAGGUC CUGAUGAG GCCGUUAGGC CGAA IGGGAAGG	27926
167	10863	CCCUGAC C UACAGCUU	9551	AAGCUGUA CUGAUGAG GCCGUUAGGC CGAA IUCAGGGG	27927
168	10862	CCUGAC C UACAGCUU	9552	GAAGCUGU CUGAUGAG GCCGUUAGGC CGAA IGUCAGGG	27928
171	10859	UGACCUAC A GCUUCAGU	9553	ACUGAAGC CUGAUGAG GCCGUUAGGC CGAA IUAGGUCA	27929
174	10856	CCUACAGC U UCAGUCAG	9554	CUGACUGA CUGAUGAG GCCGUUAGGC CGAA ICUGUAGG	27930
177	10853	ACAGCUUC A GUCAGGCU	9555	AGCCUGAC CUGAUGAG GCCGUUAGGC CGAA IAAGCUGU	27931
181	10849	CUUCAGUC A GGCUGGGC	9556	GCCCAGCC CUGAUGAG GCCGUUAGGC CGAA IACUGAAG	27932
185	10845	AGUCAGGC U GGGCCGUG	9557	CACGGCCC CUGAUGAG GCCGUUAGGC CGAA ICCUGACU	27933
190	10840	GGCUGGGC C GUGCACUU	9558	AAGUGCAC CUGAUGAG GCCGUUAGGC CGAA ICCAGGCC	27934
195	10835	GGCCGUGC A CUUUAAC	9559	GUUUAAG CUGAUGAG GCCGUUAGGC CGAA ICACGGCC	27935
197	10833	CGGUGCAC U UUAACCG	9560	CGGUUUA CUGAUGAG GCCGUUAGGC CGAA IUGCACGG	27936
204	10826	CUUUAAC C GCGGGGUC	9561	GACCCCGC CUGAUGAG GCCGUUAGGC CGAA IUUUAAG	27937
213	10817	GCGGGGUC U CCUUAAC	9562	GUUAGAGG CUGAUGAG GCCGUUAGGC CGAA IACCCCGC	27938
215	10815	GGGUCUC C UCUAACCU	9563	AGGUUAGA CUGAUGAG GCCGUUAGGC CGAA IAGACCCC	27939
216	10814	GGGUCUC C UCUAACCU	9564	GAGGUUAG CUGAUGAG GCCGUUAGGC CGAA IAGACCCC	27916
218	10812	GUCUCCUC U AACCUUA	9565	UAGAGGUU CUGAUGAG GCCGUUAGGC CGAA IAGGAGAC	27940
222	10808	CCUUAAC C UCAGUCC	9566	GGACUAGA CUGAUGAG GCCGUUAGGC CGAA IUUAGAGG	27941
223	10807	CUCUAACC U CUAGUCCU	9567	AGGACUAG CUGAUGAG GCCGUUAGGC CGAA IGUAGAG	27942
225	10805	CUAACCUC U AGUCCUUU	9568	AAAGGACU CUGAUGAG GCCGUUAGGC CGAA IAGGUUAG	27943

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230	10800	CUCUAGUC C UUUCGCCC	9569	GGCGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IACUAGAG	27944
231	10799	UCUAGUCC U UUCGCCCU	9570	AGGGCGAA CUGAUGAG	GCCGUUAGGC	CGAA IGACUAGA	27945
237	10793	CCUUUCGC C CUGGUUAA	9571	UUAACCCAG CUGAUGAG	GCCGUUAGGC	CGAA ICGAAAGG	27946
238	10792	CUUUCGCC C UGGUUAAC	9572	GUUAACCA CUGAUGAG	GCCGUUAGGC	CGAA ICGAAAG	27947
239	10791	UUUCGCCC U GGUUAACA	9573	UGUUAACC CUGAUGAG	GCCGUUAGGC	CGAA IGGCGAAA	27948
247	10783	UGGUUAAC A CCAUACC	9574	GGUAAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUAACCA	27949
249	10781	GUUAACAC C AUUACCGG	9575	CCGGUAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUAAC	27950
250	10780	UUAACACC A UUACCGG	9576	CCCGGUAA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUAAC	27951
255	10775	ACCAUAC C GGGGCUAG	9577	CUAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUGGU	27952
261	10769	ACCGGGGC U AGGGCCGC	9578	GCGGCCCU CUGAUGAG	GCCGUUAGGC	CGAA ICCCCGGU	27953
267	10763	GCUAGGGC C GCGUGGG	9579	CCCCACGC CUGAUGAG	GCCGUUAGGC	CGAA ICCCUAGC	27954
287	10743	UGGUUUGC C UUUGUUA	9580	UUAACAAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAACCA	27955
288	10742	GGUUUGCC U UUGUUAAC	9581	GUUAACAA CUGAUGAG	GCCGUUAGGC	CGAA ICAAACCA	27956
297	10733	UUGUUAAC C CAGUCCUC	9582	GAGGACUG CUGAUGAG	GCCGUUAGGC	CGAA IUUAACAA	27957
298	10732	UGUUAACC C AGUCCUC	9583	GGAGGACU CUGAUGAG	GCCGUUAGGC	CGAA IGUUAACA	27958
299	10731	GUUAACCC A GUCCUCCU	9584	AGGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUAAC	27959
303	10727	ACCCAGUC C UCCUGGGG	9585	CCCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGGGU	27960
457	10573	ACCCAGUC C UCCUGGGG	9585	CCCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGGGU	27960
304	10726	CCAGUCC U CCUGGGGC	9586	GCCCCAGG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGGG	27961
306	10724	CAGUCCUC C UGGGGCAC	9587	GUGCCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	27962
307	10723	AGUCCUCC U GGGGCACU	9588	AGUGCCCC CUGAUGAG	GCCGUUAGGC	CGAA IAGGACU	27963
313	10717	CCUGGGGC A CUAUCGCA	9589	UGCGAUAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCCAGG	27964
315	10715	UGGGGCAC U AUCGCAGA	9590	UCUGCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGCCCCA	27965
321	10709	ACUAUCGC A GACUGCAC	9591	GUGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICGAUAGU	27966
325	10705	UCGCAGAC U GCACUCUC	9592	GAGAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCAG	27967
328	10702	CAGACUGC A CUCUCCGC	9593	GCGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCUG	27968
330	10700	GACUGCAC U CUCCGCAG	9594	CUGCGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGUC	27969
332	10698	CUGCACUC U CCGCAGAG	9595	CUCUGCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGCAG	27970
334	10696	GCACUCUC C GCAGGUA	9596	UACUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGC	27971
337	10693	CUCUCCGC A GAGUAGCA	9597	UGCUACUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAGAG	27972
345	10685	AGAGUAGC A CGCCGUAG	9598	CUACGGCG CUGAUGAG	GCCGUUAGGC	CGAA ICUACUCU	27973
349	10681	UAGCACGC C GUAGCGUG	9599	CACGCUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCUA	27974
361	10669	GCGUGGUC U GACAUUGG	9600	CCAUGUC CUGAUGAG	GCCGUUAGGC	CGAA IACCACGC	27975
365	10665	GGUCUGAC A UUGGGCUU	9601	AAGCCCAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGACC	27976
372	10658	CAUUGGGC U UUGAAGUU	9602	AACUUCAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAAUG	27977
383	10647	GAAGUUAAC A ACAUGUGG	9603	CCACAUGU CUGAUGAG	GCCGUUAGGC	CGAA IUAAUUC	27978
386	10644	GUUAACAAC A UGUGGGGU	9604	ACCCACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUAA	27979
396	10634	GUGGGGUC C UCCUCCG	9605	CGGAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IACCCAC	27980
397	10633	UGGGGUCC U CCUCCGA	9606	UCGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAGCCCA	27981
399	10631	GGGUCCUC C UCCGAGA	9607	UCUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGACCC	27982
400	10630	GGUCCUCC U UCCGAGAC	9608	GUCUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGACC	27983
403	10627	CCUCCUUC C GAGACGGU	9609	ACCGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGG	27984
414	10616	GACGGUUC U GAGGGCUU	9610	AAGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAACCGUC	27985
421	10609	CUGAGGGC U UACAUGGA	9611	UCCAUGUA CUGAUGAG	GCCGUUAGGC	CGAA ICCCUCAG	27986
425	10605	GGGCUUAC A UGAUCAC	9612	GUGAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUAGCCC	27987
432	10598	CAUGGAUC A CUUCGCGG	9613	CCGCGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAUG	27988
434	10596	UGGAUCAC U UCGCGGCU	9614	AGCCGCGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCA	27989
442	10588	UUCGCGGC U UUGUUCAC	9615	GUGAACAA CUGAUGAG	GCCGUUAGGC	CGAA ICGCGAA	27990
449	10581	CUUUGUUC A CCCAGUCC	9616	GGACUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAACAAAG	27991
451	10579	UUGUUCAC C CAGUCCUC	9617	GAGGACUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAACAA	27992
452	10578	UGUUCACC C AGUCCUC	9618	GGAGGACU CUGAUGAG	GCCGUUAGGC	CGAA IUGAACAA	27993
453	10577	GUUCACCC A GUCCUCCU	9619	AGGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUAAAC	27994
458	10572	CCCAGUCC U CCUGGGGU	9620	ACCCAGG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGGG	27995
460	10570	CAGUCCUC C UGGGGUUG	9621	CAACCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	27996
461	10569	AGUCCUCC U GGGGUUGA	9622	UCAACCC CUGAUGAG	GCCGUUAGGC	CGAA IAGGACU	27997
475	10555	UGAGUCCG A GGCAGCAC	9623	GUGCUGCC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCA	27998
479	10551	UCGCAGGC A GCACCGUC	9624	GACGGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCA	27999
482	10548	CAGGCAGC A CCGUCUAC	9625	GUAGACGG CUGAUGAG	GCCGUUAGGC	CGAA ICUGCCUG	28000
484	10546	GGCAGCAC C GUCUACUC	9626	GAGUAGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGUGCC	28001
488	10542	GCACCGUC U ACUCAACU	9627	AGUUGAGU CUGAUGAG	GCCGUUAGGC	CGAA IACGGUC	28002
491	10539	CCGUCUAC U CAACUCC	9628	GGAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IUAGACGG	28003

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493	10537	GUCUACUC A ACUUCCGG	9629	CCGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUAGAC	28004
496	10534	UACUCAAC U UCCGGUGG	9630	CCACCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGUA	28005
499	10531	UCAACUUC C GGUGGCGG	9631	CCGCCACC CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUGA	28006
512	10518	GCGGGAAC U UCCCGGCC	9632	GGCCGGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCCGC	28007
515	10515	GGAACUUC C CGGCCUGA	9633	UCAGGCCG CUGAUGAG	GCCGUUAGGC	CGAA IAAGUUC	28008
516	10514	GAACUUC C GGCCUGAC	9634	GUCAGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUUC	28009
520	10510	UUCCCGGC C UGACUUUC	9635	GAAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICCGGGAA	28010
521	10509	UCCCGGCC U GACUUUCU	9636	AGAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCCGGGA	28011
525	10505	GGCCUGAC U UUCUCCUC	9637	GAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGGCC	28012
529	10501	UGACUUUC U CCUCAAAA	9638	UUUUGAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUCA	28013
531	10499	ACUUUCUC C UCAAAAUU	9639	AAUUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAGU	28014
532	10498	CUUUCUCC U CAAAUUUU	9640	AAAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAAG	28015
534	10496	UUCUCCUC A AAUUUUUC	9641	GAAAAUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAA	28016
543	10487	AAAUUUUC U UAACUAUU	9642	AAUAGUUA CUGAUGAG	GCCGUUAGGC	CGAA IAAAAUUU	28017
548	10482	UUCUUAAC U AUUUACAC	9643	GUGUAAAU CUGAUGAG	GCCGUUAGGC	CGAA IUUAAGAA	28018
555	10475	CUAUUUAC A CUAACACC	9644	GGUGUUAG CUGAUGAG	GCCGUUAGGC	CGAA IUAAAUAG	28019
557	10473	AUUUACAC U AACACCAC	9645	GUGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUAAAU	28020
561	10469	ACACUAAC A CCACUAAA	9646	UUUAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUAGUGU	28021
563	10467	ACUAACAC C ACUAAUA	9647	UAUUUAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGUUAGU	28022
564	10466	CUAACACC A CUAAUAC	9648	GUUUUAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUAG	28023
566	10464	AACACCAC U AAUACUA	9649	UAGUAAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGUU	28024
573	10457	CUAAUAC U ACUAUAAA	9650	UUUAUAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUAG	28025
576	10454	AAUACUAC U AUAAAACU	9651	AGUUUAU CUGAUGAG	GCCGUUAGGC	CGAA IUAGUAUU	28026
584	10446	UAUAAAAC U ACACUUUU	9652	AAAAGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUUUAUA	28027
587	10443	AAAACUAC A CUUUUAUG	9653	CAUAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUAGUUUU	28028
589	10441	AACUACAC U UUUUUGCA	9654	UGCAUAAA CUGAUGAG	GCCGUUAGGC	CGAA IUGUAGUU	28029
597	10433	UUUUUAGC A UACUUAUA	9655	UAUAAGUA CUGAUGAG	GCCGUUAGGC	CGAA ICAUAAAA	28030
601	10429	AUGCAUAC U UAUUUUGU	9656	ACAAUUA CUGAUGAG	GCCGUUAGGC	CGAA IUAGCAU	28031
611	10419	AUAUUGUC U AUUUACAA	9657	UUGUAAAU CUGAUGAG	GCCGUUAGGC	CGAA IACAAUUA	28032
618	10412	CUAUUUAC A AUUGAUUA	9658	UAUAUAAU CUGAUGAG	GCCGUUAGGC	CGAA IUAAUAG	28033
633	10397	UAAAUUAC U ACAGUACU	9659	AGUACUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUA	28034
636	10394	AUAUCUAC A GUACUGUG	9660	CACAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUAGAUUU	28035
641	10389	UACAGUAC U GUGUCCUC	9661	GAGGACAC CUGAUGAG	GCCGUUAGGC	CGAA IUACUGUA	28036
647	10383	ACUGUGUC C UCAACCAA	9662	UUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IACACAGU	28037
648	10382	CUGUGUCC U CAACCAA	9663	UUUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGACACAG	28038
650	10380	GUGUCCUC A ACCAAAGU	9664	ACUUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGACAC	28039
653	10377	UCCUCAAC C AAAGUUGU	9665	ACAACUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGGA	28040
654	10376	CCUCAACC A AAGUUGUG	9666	CACAACUU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGG	28041
665	10365	GUGUGUC U UCAUAUCU	9667	AGAUUAGA CUGAUGAG	GCCGUUAGGC	CGAA IACACAAC	28042
668	10362	GUGUCUUC A UAUUCUU	9668	AAGAGUA CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAC	28043
673	10357	UUCAUAUC U CUUUAGUG	9669	CACUAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAA	28044
675	10355	CAUAUCUC U UUAGUGAA	9670	UUCACUAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUAUG	28045
685	10345	UAGUGAAC U CAUGUAUU	9671	AUUACAUG CUGAUGAG	GCCGUUAGGC	CGAA IUUCACUA	28046
687	10343	GUGAACUC A UGUAAUCC	9672	GGAUUACA CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCAC	28047
695	10335	AUGUAAUC C ACAUACUU	9673	AAGUAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUUACAU	28048
696	10334	UGUAAUCC A CAUACUUC	9674	GAAGUAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUAUA	28049
698	10332	UAAUCCAC A UACUUCUC	9675	GAGAAGUA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUUA	28050
702	10328	CCACAUAC U UCUAUCU	9676	AGAUAGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGG	28051
705	10325	CAUACUUC U CAUCUCCG	9677	CGGAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGUAUG	28052
707	10323	UACUUCUC A UCUCCGAU	9678	AUCGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGUA	28053
710	10320	UUCUCAUC U CCGAUGAU	9679	AUCAUCGG CUGAUGAG	GCCGUUAGGC	CGAA IAUGAGAA	28054
712	10318	CUCAUCUC C GAUGAUUG	9680	CAUCAUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGAG	28055
722	10308	AUGAUUGC U CUGACUUG	9681	CAAGUCAG CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCAU	28056
724	10306	GAUUGCUC U GACUUGGU	9682	ACCAAGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAUC	28057
728	10302	GCUCUGAC U UGUGUAGU	9683	AUCAACCA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGAGC	28058
740	10290	UUGAAGC C ACCUGGAU	9684	AUCCAGGU CUGAUGAG	GCCGUUAGGC	CGAA ICUAUCAA	28059
741	10289	UGAUAGCC A CCUGGAUG	9685	CAUCCAGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUAUCA	28060
743	10287	AUAGCCAC C UGGAUGUU	9686	AACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGCUAU	28061
744	10286	UAGCCACC U GGAUGUUU	9687	AAACAUCC CUGAUGAG	GCCGUUAGGC	CGAA IGUGGCUA	28062
755	10275	AUGUUUUC U GCCACGU	9688	ACGUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IAAACAUA	28063
758	10272	UUUUCUGC C CACGUGGC	9689	GCCACGUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAAAA	28064

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759	10271	UUUCUGCC C ACGUGGCU	9690	AGCCACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGAAA	28065
760	10270	UUUCUGCC A CGUGGCUC	9691	GAGCCACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAGAA	28066
767	10263	CACGUGGC U CGGGCUCU	9692	AGAGCCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACGUG	28067
773	10257	GCUCGGGC U CUUGUGCC	9693	GGCACAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCAGAC	28068
775	10255	UCGGGCUC U UGUGCCAA	9694	UUGGCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCCAG	28069
781	10249	UCUUGUGC C AAUCAGGC	9695	GCCUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACAAGA	28070
782	10248	CUUGUGCC A AUCAGGCU	9696	AGCCUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACAAG	28071
786	10244	UGCCAAUC A GGCUGCCA	9697	UGGCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGCA	28072
790	10240	AAUCAGGC U GCCACACC	9698	GGUGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGAUU	28073
793	10237	CAGGUGC C ACACCAGA	9699	UCUGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCCUG	28074
794	10236	AGGCUGCC A CACCAGAU	9700	AUCUGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGCCU	28075
796	10234	GCUGCCAC A CCAGAUGU	9701	ACAUCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCAGC	28076
798	10232	UGCCACAC C AGAUGUCC	9702	GGACAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGGCA	28077
799	10231	GCCACACC A GAUGUCCU	9703	AGGACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUGGC	28078
806	10224	CAGAUGUC C UCUCGUUU	9704	AAACGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUCUG	28079
807	10223	AGAUGUCC U CUCGUUUU	9705	AAAACGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACAUCU	28080
809	10221	AUGUCCUC U CGUUUUC	9706	GGAAAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGACAU	28081
817	10213	UCGUUUUC C UGAAUAUG	9707	CAUAUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAACGA	28082
818	10212	CGUUUUCC U GAAUAUGG	9708	CCAUAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAAACG	28083
833	10197	GGGACGUC A CUCCAUUU	9709	AAAUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUC	28084
835	10195	GACGUCAC U CCAUUUCU	9710	AGAAAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACGUC	28085
837	10193	CGUACUCC C AUUUCUCC	9711	GGAGAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGACG	28086
838	10192	GUCACUCC A UUUCUCCA	9712	UGGAGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGAC	28087
843	10187	UCCAUUUC U CCACUGGG	9713	CCCAGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUGGA	28088
845	10185	CAUUUCUC C ACUGGGGU	9714	ACCCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAUUG	28089
846	10184	AUUUCUCC A CUGGGGUU	9715	AACCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAAAU	28090
848	10182	UUUCCAC U GGGGUUUU	9716	AAAACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGAA	28091
860	10170	GUUUUGUC U UCCAUCCA	9717	UGGAUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAAAC	28092
863	10167	UUGUCUUC C AUCCAUUC	9718	GAAUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACAA	28093
864	10166	UGUCUUC A UCCAUUA	9719	UGAAUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGACA	28094
867	10163	CUUCCAUC C AUUCAUUC	9720	GAAUGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGAAG	28095
868	10162	UUCCAUC A UUUAUUCU	9721	AGAAUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGGAA	28096
872	10158	AUCCAUC A UUCUCCUC	9722	GAGGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGGAU	28097
876	10154	AUUAUUC U CCUCUAUC	9723	GAUAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGAAU	28098
878	10152	UUAUUC C UCUAUCCA	9724	UGGAUAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAUGA	28099
879	10151	CAUUCUCC U CUAUCCAA	9725	UUGGAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAAUG	28100
881	10149	UUCUCCU U AUCCAAAC	9726	GUUUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGAA	28101
885	10145	CCUCUAUC C AAACACGG	9727	CCGUGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGAGG	28102
886	10144	CUCUAUCC A AACACGGU	9728	ACCGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUAGAG	28103
890	10140	AUCCAAAC A CGGUUCCA	9729	UGGAACCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUGGAU	28104
897	10133	CACGUGUC C AGACCUCC	9730	GGAGGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCGUG	28105
898	10132	ACGGUUC A GACCUCCA	9731	UGGAGGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACCGU	28106
902	10128	UCCAGAC C UCCAACAU	9732	AUGUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGGAA	28107
903	10127	UCCAGACC U CCAACAUG	9733	CAUGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCUGGA	28108
905	10125	CAGACUC C AACAUGUC	9734	GACAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUCU	28109
906	10124	AGACCUCC A ACAUGUCC	9735	GGACAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUCU	28110
909	10121	CCUCCAAC A UGUCCUCU	9736	AGAGGACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAGG	28111
914	10116	AACAUGUC C UCUGUUGU	9737	ACAACAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUGU	28112
915	10115	ACAUGUCC U CUGUUGUC	9738	GACAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACAUGU	28113
917	10113	AUGUCCUC U GUUGUCAU	9739	AUGACAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGACAU	28114
924	10106	CUGUUGUC A UCCACUCU	9740	AGAGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAACAG	28115
927	10103	UUGUCAUC C ACUCUCCU	9741	AGGAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGCAA	28116
928	10102	UGUAUCC A CUCUCCUC	9742	GAGGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGACA	28117
930	10100	UCAUCCAC U CUCCUCCU	9743	AGGAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAUGA	28118
932	10098	AUCCACUC U CCUCCUGC	9744	GCAGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGGAU	28119
934	10096	CCACUCUC C UCCUGCAU	9745	AUGCAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGUGG	28120
935	10095	CACUCUCC U CCUGCAUG	9746	CAUGCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAGUG	28121
937	10093	CUCUCCUC C UGCAUGGA	9747	UCCAUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGAG	28122
938	10092	UCUCCUCC U GCAUGGAU	9748	AUCCAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGGAGA	28123
941	10089	CCUCCUGC A UGGAUGGA	9749	UCCAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGGAGG	28124
951	10079	GGAUGGAC C ACGUGGUU	9750	AACCACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUCC	28125

952	10078	GAUGGACC A CGUGGUUC	9751	GAACCACG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUC	28126
961	10069	CGUGGUUC U UCCGGUAG	9752	CUACCGGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCACG	28127
964	10066	GGUUCUUC C GGUAGGGA	9753	UCCCUACC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAACC	28128
974	10056	GUAGGGAC C CAAUUCAC	9754	GUGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCUAC	28129
975	10055	UAGGGACC C AAUUCACA	9755	UGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGUCCCUA	28130
976	10054	AGGGACCC A AUUCACAG	9756	CUGUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGGUCCCU	28131
981	10049	CCCAAUUC A CAGGGACA	9757	UGUCCUG CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGGG	28132
983	10047	CAAUUCAC A GGGACAGC	9758	GCUGUCCC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAUUG	28133
989	10041	ACAGGGAC A GCGGAGCA	9759	UGCUCGCG CUGAUGAG	GCCGUUAGGC	CGAA IUCCCGU	28134
997	10033	AGCGGAGC A AAUGGCGU	9760	ACGCCAUU CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCGU	28135
1010	10020	GCGUUGGC C AUGAGCCG	9761	CGGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAACGC	28136
1011	10019	CGUUGGCC A UGAGCCGC	9762	GCGGCUCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAACG	28137
1017	10013	CCAUGAGC C GCAGGUCU	9763	AGACCUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUGG	28138
1020	10010	UGAGCCGC A GGUCUCU	9764	AAGAGACC CUGAUGAG	GCCGUUAGGC	CGAA ICGGCUCA	28139
1025	10005	CGCAGGUC U CUUCUGUG	9765	CACAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IACCUGCG	28140
1027	10003	CAGGUCUC U UCUGUGGA	9766	UCCACAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGACCUG	28141
1030	10000	GUCUCUUC U GUGGAAGU	9767	ACUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGAC	28142
1041	9989	GGAAGUAC A GAAGCAGC	9768	GCUGCUUC CUGAUGAG	GCCGUUAGGC	CGAA IUACUUC	28143
1047	9983	ACAGAAGC A GCCACAUC	9769	GAUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGU	28144
1050	9980	GAAGCAGC C ACAUCUGG	9770	CCAGAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUUC	28145
1051	9979	AAGCAGCC A CAUCUGGG	9771	CCCAGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCUU	28146
1053	9977	GCAGCCAC A UCUGGGCA	9772	UGCCCAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGCGC	28147
1056	9974	GCCACAUC U GGGCAUAA	9773	UUAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUGGC	28148
1061	9969	AUCUGGGC A UAAGACUU	9774	AAGUCUUA CUGAUGAG	GCCGUUAGGC	CGAA ICCAGAU	28149
1068	9962	CAUAAGAC U UAGCCAGA	9775	UCUGGCUA CUGAUGAG	GCCGUUAGGC	CGAA IUCUUAUG	28150
1073	9957	GACUAGC C AGACAAGC	9776	GCUGUCU CUGAUGAG	GCCGUUAGGC	CGAA ICUAAGUC	28151
1074	9956	ACUAGCC A GACAAGCA	9777	UGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUAAGU	28152
1078	9952	AGCCAGAC A AGCAGUGU	9778	ACACUGCU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGCU	28153
1082	9948	AGACAAGC A GUGUCGCG	9779	CGCGACAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCU	28154
1098	9932	GGACGUUC C AUCCGGCC	9780	GGCCGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAACGUCC	28155
1099	9931	GACGUUC A UCCGGCCC	9781	GGCCCGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAACGUC	28156
1102	9928	GUUCCAUC C GGCCCTUG	9782	CAGGGGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAAC	28157
1106	9924	CAUCCGGC C CCUGGAGA	9783	UCUCCAGG CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAUG	28158
1107	9923	AUCCGGCC C CUGGAGAU	9784	AUCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IGCCGGAU	28159
1108	9922	UCCGGCCC C UGGAGAU	9785	UAUCUCA CUGAUGAG	GCCGUUAGGC	CGAA IGGCCGGA	28160
1109	9921	CCGGCCCC U GGAGAU	9786	AUAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCCGG	28161
1124	9906	AUGCGAGC U CUGCCUAC	9787	GUAGGACG CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCAU	28162
1126	9904	GCGAGCUC U GCCUACCA	9788	UGGUAGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCGC	28163
1129	9901	AGCUCUGC C UACCAAU	9789	AAUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCU	28164
1130	9900	GCUCUGCC U ACCAAUUC	9790	GAAUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAGC	28165
1133	9897	CUGCCUAC C AAUUCAUC	9791	GAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IUAGGCAG	28166
1134	9896	UGCCUACC A AUUCAUCC	9792	GGAUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGUAGGCA	28167
1139	9891	ACCAAUUC A UCCUGUCC	9793	GGACAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGGU	28168
1142	9888	AAUUCAUC C UGUCCUCG	9794	CGAGGACA CUGAUGAG	GCCGUUAGGC	CGAA IAUGAAU	28169
1143	9887	AUUCAUCC U GUCCUCGG	9795	CCGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAAU	28170
1147	9883	AUCCUGUC C UCGGCAUG	9796	CAUGCCG CUGAUGAG	GCCGUUAGGC	CGAA IACAGGAU	28171
1148	9882	UCCUGUCC U CGGCAUGG	9797	CCAUGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGA	28172
1153	9877	UCCUGGC A UGGAACCA	9798	UGGUUCCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAUG	28173
1160	9870	CAUGGAAC C ACCAGUGU	9799	ACACUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAUG	28174
1161	9869	AUGGAACC A CCAGUGU	9800	AACACUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCAUC	28175
1163	9867	GGAACCAC C AGUGUUCU	9801	AGAACACU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUCC	28176
1164	9866	GAACCACC A GUGUUCU	9802	AAGAACAC CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUUC	28177
1171	9859	CAGUGUUC U UCAUCU	9803	AAGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAACACUG	28178
1174	9856	UGUUCUUC C AUCUUCA	9804	UGAAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGAACA	28179
1175	9855	GUUCUUC C UCUCU	9805	AUGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAAC	28180
1178	9852	CUUCAUC U UCAUGAU	9806	AUCAUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAG	28181
1182	9848	CAUCUUC A UGAUCAU	9807	AUUGAUA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAUG	28182
1188	9842	UCAUGAUC A AUUCAGUG	9808	CACUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUGA	28183
1193	9837	AUCAAUUC A GUGAAUG	9809	CAUUCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGAU	28184
1210	9820	GUUGAGC A AAUGGAA	9810	UUCAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAAC	28185
1220	9810	AAUGGAAC C UGCUGCA	9811	UGGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAUC	28186

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1221	9809	AUGGAACC U GCUGCCAA	9812	UUGGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCAUC	28187
1224	9806	GAACCUGC U GCCAAUCA	9813	UGAUUGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGUUC	28188
1227	9803	CCUGCUGC C AAUCAUAC	9814	GUAUGAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAGG	28189
1228	9802	CUGCUGCC A AUCAUACC	9815	GGUAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGCAG	28190
1232	9798	UGCCAAUC A UACCAUCC	9816	GGAUGGUA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGCA	28191
1236	9794	AAUCAUAC C AUCCAGUU	9817	AACUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGAUU	28192
1237	9793	AUCAUACC A UCCAGUUG	9818	CAACUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGUAUGAU	28193
1240	9790	AUACCAUC C AGUUGACG	9819	CGUCAACU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGUU	28194
1241	9789	UACCAUCC A GUUGACGG	9820	CCGUCAAC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGGUA	28195
1254	9776	ACGGUUUC C ACUCUUGG	9821	CCAAGAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAAACCGU	28196
1255	9775	CGUUUUC C CUCUUGGA	9822	UCCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAACCG	28197
1257	9773	GUUUCAC U CUUGGAUG	9823	CAUCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAAAC	28198
1259	9771	UUCACUC U UGGAUGUC	9824	GACAUCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGAA	28199
1268	9762	UGGAUGUC U UUGCGAAC	9825	GUUCGCAA CUGAUGAG	GCCGUUAGGC	CGAA	IACAUCCA	28200
1277	9753	UUGCGAAC C UUUGACAU	9826	AUGUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGCAA	28201
1278	9752	UGCGAAC U UUGACAU	9827	UAUGCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCGCA	28202
1284	9746	CCUUUGAC A UAGCAUUG	9828	CAAUGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IUCAAGG	28203
1289	9741	GACAUAGC A UUGAGGAA	9829	UUCUCUAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUAUGUC	28204
1313	9717	GAGGUGGC A AAGCGAUC	9830	GAUCGCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCACCUC	28205
1325	9705	CGAUCGUC C AGGGGCUU	9831	AAGCCCCU CUGAUGAG	GCCGUUAGGC	CGAA	IACGAUCG	28206
1326	9704	GAUCGUCC A GGGGCUU	9832	AAAGCCCC CUGAUGAG	GCCGUUAGGC	CGAA	IGACGAUC	28207
1332	9698	CCAGGGGC U UUACCACA	9833	UGUGGUAA CUGAUGAG	GCCGUUAGGC	CGAA	ICCCUGG	28208
1337	9693	GGCUUAC C ACACAGUC	9834	GACUGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAAAGCC	28209
1338	9692	GCUUUACC A CACAGUCA	9835	UGACUGUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUAAAGC	28210
1340	9690	UUUACCAC A CAGUCAUC	9836	GAUGACUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUAAA	28211
1342	9688	UACCACAC A GUCAUCUC	9837	GAGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGGUA	28212
1346	9684	ACACAGC A UCUCACU	9838	AGUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IACUGUGU	28213
1349	9681	CAGUCAUC U CCACUGAC	9839	GUCACUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGACUG	28214
1351	9679	GUCAUCUC C ACUGACAG	9840	CUGUCAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUGAC	28215
1352	9678	UCAUCUC A CUGACAGC	9841	GCUGUCAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAUGA	28216
1354	9676	AUCUCCAC U GACAGCCA	9842	UGGUCUGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAGAU	28217
1358	9672	CCACUGAC A GCCAUGCG	9843	CGCAUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUCAGUGG	28218
1361	9669	CUGACAGC C AUGCGGCU	9844	AGCCGCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCAG	28219
1362	9668	UGACAGCC A UGCGGCUG	9845	CAGCCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGUCA	28220
1369	9661	CAUGCGGC U GAGUCUU	9846	AAAGACUC CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCAUG	28221
1375	9655	GCUGAGUC U UUCUUCCC	9847	GGGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IACUCAGC	28222
1379	9651	AGUCUUUC U UCCCAU	9848	AAUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAAACU	28223
1382	9648	CUUUCUC C CCAUUCUC	9849	GAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAAAG	28224
1383	9647	UUUCUUC C CAUUCUCA	9850	UGAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAAA	28225
1384	9646	UUCUUCCC C AUUCUCAA	9851	UUGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGAA	28226
1385	9645	UCUUCCCC A UUCUCAA	9852	UUUGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGAA	28227
1389	9641	CCCAUUC U CAAACAGC	9853	GCUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGGGG	28228
1391	9639	CCAUUCUC A AACAGCCA	9854	UGGCGUUU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAUGG	28229
1395	9635	UCUCAAAC A GCCAGGUC	9855	GACCUGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGAGA	28230
1398	9632	CAAACAGC C AGGUCCUG	9856	CAGGACCU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUUUG	28231
1399	9631	AAACAGCC A GGUCCUGA	9857	UCAGGACC CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUUUU	28232
1404	9626	GCCAGGUC C UGACUUUG	9858	CAAAGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGGC	28233
1405	9625	CCAGGUCC U GACUUUGG	9859	CCAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA	IGACCUGG	28234
1409	9621	GUCCUGAC U UUGGGUCC	9860	GGACCCAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCAGGAC	28235
1417	9613	UUUGGGUC C UUUCUUU	9861	AAGGGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IACCCAAA	28236
1418	9612	UUGGGUCC U UUCCUUU	9862	AAAGGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGACCCAA	28237
1422	9608	GUCCUUUC C CUUUUGUG	9863	CACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGGAC	28238
1423	9607	UCCUUUCC C UUUGUGA	9864	UCACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGGA	28239
1424	9606	CCUUUCC U UUUGUGAG	9865	CUCACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAAGG	28240
1437	9593	UGAGUUUC U CCACAUCA	9866	UGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IACACUCA	28241
1439	9591	AGUUUCUC C ACAUCAUC	9867	GAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAACU	28242
1440	9590	GUUUCUCC A CAUCAUCU	9868	AGAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAAAC	28243
1442	9588	UUCUCCAC A UCAUCUGG	9869	CCAGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAGAA	28244
1445	9585	UCCACAUC A UCUGGGCC	9870	GGCCCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGGA	28245
1448	9582	ACAUCAUC U GGGCCAAU	9871	AUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAUGU	28246
1453	9577	AUCUGGGC C AAUCACUC	9872	GAGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGAU	28247

Table IX

1454	9576	UCUGGGCC A AUCACUCC	9873	GGAGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCCCAGA	28248
1458	9572	GGCCAAUC A CUCCUCC	9874	GGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGCC	28249
1460	9570	CCAAUCAC U CCUCCCC	9875	GGGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGG	28250
1462	9568	AAUCACUC C UUCCCCU	9876	AAGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGAUU	28251
1463	9567	AUCACUCC U UCCCCUUC	9877	GAAGGGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGAU	28252
1466	9564	ACUCCUUC C CCUCCAU	9878	AUGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGU	28253
1467	9563	CUCCUCC C CUUCCAU	9879	GAUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGAG	28254
1468	9562	UCCUCCCC C UUCAUCA	9880	UGAUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGGA	28255
1469	9561	CCUCCCC U UCCAUCU	9881	AUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAGG	28256
1472	9558	UCCCCUUC C AUCAUCCU	9882	AGGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGGA	28257
1473	9557	CCCCUCC A UCAUCCUC	9883	GAGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGGG	28258
1476	9554	CUUCCAU A UCCUCACC	9884	GGUGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAAG	28259
1479	9551	CCAUCAUC C UCACCAGC	9885	GCUGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGAUGG	28260
1480	9550	CAUCAUCC U CACCAGCU	9886	AGCUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUG	28261
1482	9548	UCAUCCUC A CCAGCUGG	9887	CCAGCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUGA	28262
1484	9546	AUCCUCAC C AGCUGGAC	9888	GUCCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IUGAGGAU	28263
1485	9545	UCCUCACC A GCUGGACG	9889	CGUCCAGC CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGGA	28264
1488	9542	UCACCAGC U GGACGGCC	9890	GGCCGUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGUGA	28265
1496	9534	UGGACGGC C AGGUUGGU	9891	ACCAACCU CUGAUGAG	GCCGUUAGGC	CGAA ICCGUCCA	28266
1497	9533	GGACGGCC A GGUUGGUG	9892	CACCAACC CUGAUGAG	GCCGUUAGGC	CGAA IGCCGUCC	28267
1529	9501	UAGGUGAC A ACUUGUCC	9893	GGACAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUCACCUA	28268
1532	9498	UGACAAC U UGUCCACU	9894	AGUGGACA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCCAC	28269
1537	9493	AACUUGUC C ACUCCCC	9895	GGGGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IACAAGUU	28270
1538	9492	ACUUGUCC A CUCCCCU	9896	AGGGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGACAAGU	28271
1540	9490	UUGUCCAC U CCCCUCU	9897	AGAGGGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGACAA	28272
1542	9488	GUCCACUC C CCCUCUGA	9898	UCAGAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGAC	28273
1543	9487	UCCACUCC C CCUCUGAU	9899	AUCAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGGA	28274
1544	9486	CCACUCCC C CUCUGAUC	9900	GAUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IGGAGUGG	28275
1545	9485	CACUCCCC C UCUGAUCU	9901	AGAUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGAGUG	28276
1546	9484	ACUCCCCC U CUGAUCUU	9902	AAGAUACG CUGAUGAG	GCCGUUAGGC	CGAA IGGGAGU	28277
1548	9482	UCCCCCUC U GAUCUUCU	9903	AGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGGGGA	28278
1553	9477	CUCUGAUC U UCUCUGGA	9904	UCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUACAGAG	28279
1556	9474	UGAUCUUC U CUGGAGAU	9905	AUCUCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUCA	28280
1558	9472	AUCUUCUC U GGAGAUAA	9906	UUAUCUCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGAU	28281
1568	9462	GAGAUAA C UCCAUGAC	9907	GUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCUC	28282
1571	9459	AUAACAUC C AUGACGGU	9908	ACCGUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUGUUAU	28283
1572	9458	UAACAUC C UGACGGUU	9909	AACCGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUUA	28284
1582	9448	GACGGUUC U UCCAUCAG	9910	CUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCGUC	28285
1585	9445	GGUUCUUC C AUCAGCAG	9911	CUGCUGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAGAACC	28286
1586	9444	GUUCUUC C UCAGCAGC	9912	GCUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAAC	28287
1589	9441	CUUCCAU C GCAGCCGG	9913	CCGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAAG	28288
1592	9438	CCAUCAG C GCCGGGCG	9914	CGCCCGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUGG	28289
1595	9435	UCAGCAG C GGGCGCAU	9915	AUGCGCCC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUGA	28290
1602	9428	CCGGGCGC A UCACUUC	9916	GAAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA ICGCCCGG	28291
1605	9425	GGCGCAUC A CUUCCACA	9917	UGUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUGCGCC	28292
1607	9423	CGCAUCAC U UUCACAAC	9918	GUUGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGCG	28293
1611	9419	UCACUUC A CAACUUUG	9919	CAAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUGA	28294
1613	9417	ACUUCAC A ACUUUGUG	9920	CACAAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAGU	28295
1616	9414	UUCACAAC U UUGUGACG	9921	CGUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGAA	28296
1635	9395	AGGUGAGC U CAAUGAUG	9922	CAUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCACCU	28297
1637	9393	GUGAGCUC A AUGAUGGC	9923	GCCAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCAC	28298
1646	9384	AUGAUGGC C CUGGCAAG	9924	CUUGCCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCAU	28299
1647	9383	UGAUGGCC C UGGCAAGA	9925	UCUUGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUCA	28300
1648	9382	GAUGGCC U GGCAAGAC	9926	GUCUUGCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAUC	28301
1652	9378	GCCUGGC A AGACGCCG	9927	CGGCGUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGGGC	28302
1659	9371	CAAGAGC C GAUGUCC	9928	GGAAACUC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUG	28303
1667	9363	CGAUGUUC C CCAUCAAG	9929	CUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAACAUCG	28304
1668	9362	GAUGUUC C CAUCAAGC	9930	GCUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAACAUC	28305
1669	9361	AUGUUC C AUCAAGCA	9931	UGCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGAACAU	28306
1670	9360	UGUUC C UCAAGCAG	9932	CUGCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGAACA	28307
1673	9357	UCCCAUC A AGCAGCUC	9933	GAGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGGA	28308

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1677	9353	CAUCAAGC A GCUCAAGC	9934	GCUUGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGAUG	28309
1680	9350	CAAGCAGC U CAAGCACC	9935	GGUGCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGCUUG	28310
1682	9348	AGCAGCUC A AGCACCUC	9936	AAGGUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCUGCU	28311
1686	9344	GCUCAAGC A CCUAGCU	9937	AGCUAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGAGC	28312
1688	9342	UCAAGCAC C UUAGCUUC	9938	GAAGCUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGCUUGA	28313
1689	9341	CAAGCACC U UAGCUUCA	9939	UGAAGCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGCUUG	28314
1694	9336	ACCUUAGC U UCAUUUUC	9940	GAAAAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAAGGU	28315
1697	9333	UUAGCUUC A UUUUCCAA	9941	UUGGAAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGCUAA	28316
1703	9327	UCAUUUUC C AAGUCAGC	9942	GCUGACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAAUGA	28317
1704	9326	CAUUUUCC A AGUCAGCU	9943	AGCUGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAAUG	28318
1709	9321	UCCAAGUC A GCUCUCGU	9944	ACGAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUUGGA	28319
1712	9318	AAGUCAGC U CUCGUGAU	9945	AUCACGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGACUU	28320
1714	9316	GUCAGCUC U CGUGAUGC	9946	GCAUCACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCUGAC	28321
1730	9300	CGGGUGUC C CAGCCAGC	9947	GCUGGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACACCCG	28322
1731	9299	GGGUGUCC C AGCCAGCU	9948	AGCUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACACCC	28323
1732	9298	GGUGUCCC A GCCAGCUG	9949	CAGCUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGACACC	28324
1735	9295	GUCCCAGC C AGCUGUGU	9950	ACACAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGGGAC	28325
1736	9294	UCCCAGCC A GCUGUGUC	9951	GACACAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUGGGA	28326
1739	9291	CAGCCAGC U GUGUCAUC	9952	GAUGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGGCUG	28327
1745	9285	GCUGUGUC A UCAGCAUA	9953	UAUGCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACACAGC	28328
1748	9282	GUGUCAUC A GCAUAGAU	9954	AUCUAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGACAC	28329
1751	9279	UCAUCAGC A UAGAUCUU	9955	AAGAUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGAUGA	28330
1758	9272	CAUAGAUC U UGCCCCCA	9956	UGGGGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCAUG	28331
1762	9268	GAUCUUGC C CCCAGGCC	9957	GGCCUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAAGAUC	28332
1763	9267	AUCUUGCC C CCAGGCCG	9958	CGGCCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCAAGAU	28333
1764	9266	UCUUGCCC C CAGGCCGG	9959	CCGGCCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGCAAGA	28334
1765	9265	CUUGCCCC C AGGCCGGG	9960	CCCGGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGCAAG	28335
1766	9264	UUGCCCCC A GGCCGGGU	9961	ACCCGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGCAA	28336
1770	9260	CCCCAGGC C GGGUGCCA	9962	UGGCACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCUGGGG	28337
1777	9253	CCGGGUGC C AACUUCAC	9963	GUGAAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICACCCGG	28338
1778	9252	CGGGUGCC A ACUUCACG	9964	CGUGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCACCCG	28339
1781	9249	GUGCCAAC U UCACGCAG	9965	CUGCGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGGCAC	28340
1784	9246	CCAACUUC A CGCAGGAU	9966	AUCCUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGUUGG	28341
1788	9242	CUUCACGC A GGAUGUAA	9967	UUACAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGUGAUG	28342
1798	9232	GAUGUAA C CAGUUUUU	9968	AAAAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUACAUC	28343
1799	9231	AUGUAACC C AGUUUUUG	9969	CAAAAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUAUCAU	28344
1800	9230	UGUAACCC A GUUUUUGG	9970	CCAAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGUUACA	28345
1813	9217	UUGGAGGC C CAAGCCCU	9971	AGGGCUTU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCUCCAA	28346
1814	9216	UGGAGGCC C AAGCCUC	9972	GAGGGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCCUCCA	28347
1815	9215	GGAGGCC C A AGCCUCG	9973	CGAGGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGCCUCC	28348
1819	9211	GCCCAAGC C CUCGACAC	9974	GUGUCGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGGGC	28349
1820	9210	CCCAAGCC C UCGACACC	9975	GGUGUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUUGGG	28350
1821	9209	CCAAGCCC U CGACACCU	9976	AGGUGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGCUUGG	28351
1826	9204	CCUCGAC A CCUCUCC	9977	GGAGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCGAGGG	28352
1828	9202	CUCGACAC C UCCUCCUG	9978	CAGGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUCGAG	28353
1829	9201	UCGACACC U CCUCCUGA	9979	UCAGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGUCGA	28354
1831	9199	GACACCUC C UCCUGAGU	9980	ACUCAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGUGUC	28355
1832	9198	ACACCUCU C CCUGAGUU	9981	AACUCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGUGUU	28356
1834	9196	ACCUCUCC C UGAGUUCU	9982	AGAACUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGAGGU	28357
1835	9195	CCUCCUCC U GAGUUCUU	9983	AAGAACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGGAGG	28358
1842	9188	CUGAGUUC U UUCUCCA	9984	UGGAAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAACUCAG	28359
1846	9184	GUUCUUUC U UCCAAGCC	9985	GGCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAGAAC	28360
1849	9181	CUUUCUUC C AAGCCAGU	9986	ACUGGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGAAAG	28361
1850	9180	UUUCUUC C A AGCCAGUG	9987	CACUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAAGAA	28362
1854	9176	UUCCAAGC C AGUGGUCU	9988	AGACCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGGAA	28363
1855	9175	UCCAAGCC A GUGGUCUU	9989	AAGACCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUUGGA	28364
1862	9168	CAGUGGUC U UCAUUGAG	9990	CUCAUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACCACUG	28365
1865	9165	UGGUCUUC A UUGAGAAA	9991	UUUCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGACCA	28366
1876	9154	GAGAAAAC C CAGAGCCU	9992	AGGCUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUUCUC	28367
1877	9153	AGAAAACC C AGAGCCUC	9993	GAGGCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUUUCU	28368
1878	9152	GAAAACCC A GAGCCUCG	9994	CGAGGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGUUUUC	28369

1883	9147	CCCAGAGC C UCGAACUC	9995	GAGUUCGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGGG	28370
1884	9146	CCAGAGCC U CGAACUCC	9996	GGAGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUGG	28371
1890	9140	CCUCGAAC U CCAGAAAG	9997	CUUUCUGG CUGAUGAG	GCCGUUAGGC	CGAA IUUCGAGG	28372
1892	9138	UCGAACUC C AGAAAGCG	9998	CGCUUUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCGA	28373
1893	9137	CGAACUCC A GAAAGCGA	9999	UCGCUUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAGUUCG	28374
1904	9126	AAGCGAGC U CCGAGCCA	10000	UGGCUCGG CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCUU	28375
1906	9124	GCGAGCUC C GAGCCACA	10001	UGUGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGCUCGC	28376
1911	9119	CUCCGAGC C ACAUGAAC	10002	GUUCAUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGAG	28377
1912	9118	UCCGAGCC A CAUGAAC	10003	GGUUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUCGGA	28378
1914	9116	CGAGCCAC A UGAACCAA	10004	UUGGUUCA CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUCG	28379
1920	9110	ACAUGAAC C AAUUGGCU	10005	AGCCAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUCAUGU	28380
1921	9109	CAUGAAC A AAUGGCUC	10006	GAGCCAUU CUGAUGAG	GCCGUUAGGC	CGAA IGUUCAUG	28381
1928	9102	CAAUUGGC U CUGCUUCC	10007	GGAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCAUUUG	28382
1930	9100	AAUGGCUC U GCUUCCCU	10008	AGGGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAUU	28383
1933	9097	GGCUCUGC U UCCCUUGG	10009	CCAAGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGCC	28384
1936	9094	UCUGCUUC C CUUGCCCU	10010	AGGCCAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGA	28385
1937	9093	CUGCUUCC C UUGGCCUU	10011	AAGGCCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAG	28386
1938	9092	UGCUCUCC U UGGCCUUU	10012	AAAGGCCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGCA	28387
1943	9087	CCCUUGGC C UUCCGAA	10013	UUCGGAAA CUGAUGAG	GCCGUUAGGC	CGAA ICCAAGGG	28388
1944	9086	CCUUGGCC U UCCGAAAC	10014	GUUCGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAAGG	28389
1948	9082	GGCCUUUC C GAACUCUC	10015	GAGAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGCC	28390
1953	9077	UUCCGAAC U CUCCGGGU	10016	ACCCGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCGGAA	28391
1955	9075	CCGAACUC U CCGGGUUU	10017	AAACCCGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCGG	28392
1957	9073	GAACUCUC C GGGUUUUU	10018	AAAAACCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUC	28393
1968	9062	GUUUUUUC U CUCUCUUU	10019	AAAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAAC	28394
1970	9060	UUUUUCUC U CUCUUUCC	10020	GGAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAAA	28395
1972	9058	UUUCUCUC U CUUUCCCA	10021	UGGAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAAA	28396
1974	9056	UCUCUCUC U UUUCCCAU	10022	GAUGGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAGA	28397
1978	9052	UCUCUUUC C CAUCAUGU	10023	ACAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGA	28398
1979	9051	CUCUUUCC C AUCAUGUU	10024	AACAUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAGG	28399
1980	9050	UCUUUCCU A UCAUGUUG	10025	CAACAUGA CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGAA	28400
1983	9047	UUCCCAUC A UGUUGUAA	10026	UUACAACA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGAA	28401
1996	9034	GUAAAUUC A AGUGUGAC	10027	GUCACACU CUGAUGAG	GCCGUUAGGC	CGAA ICAUUUAC	28402
2005	9025	AGUGUGAC A UUUCCCCC	10028	GGGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCACACU	28403
2009	9021	UGACAUUC C CCCCAGC	10029	CUGCGGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUCA	28404
2010	9020	GACAUUCC C CCCGAGA	10030	UCUGCGGG CUGAUGAG	GCCGUUAGGC	CGAA IGAAUGUC	28405
2011	9019	ACAUUCCC C CCGCAGAU	10031	AUCUGCGG CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUGU	28406
2012	9018	CAUUCCCC C CGCAGAU	10032	CAUCUGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAUG	28407
2013	9017	AUUCCCCC C GCAGAUU	10033	ACAUCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGGAU	28408
2016	9014	CCCCCGC A GAUGUGCC	10034	GGCACAUC CUGAUGAG	GCCGUUAGGC	CGAA ICGGGGGG	28409
2024	9006	AGAUGUGC C UCGCGCUC	10035	GAGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ICACAUCU	28410
2025	9005	GAUGUGCC U CGCGCUCC	10036	GGAGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGCACAUC	28411
2031	8999	CCUCGCGC U CCUCAUCC	10037	GGAUGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGCGAGG	28412
2033	8997	UCGCGCUC C UCAUCCAC	10038	GUGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCGA	28413
2034	8996	CGCGCUCC U CAUCCACC	10039	GGUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGCGCG	28414
2036	8994	CGCUCCUC A UCCACCAU	10040	AUGGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGCG	28415
2039	8991	UCCUCAUC C ACCAUCUC	10041	GAGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAGG	28416
2040	8990	CCUCAUCC A CCAUCUCC	10042	GGAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA IAUAGAGG	28417
2042	8988	UCAUCCAC C AUCUCCCA	10043	UGGGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGGAUGA	28418
2043	8987	CAUCCACC A UCUCCAA	10044	UUGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGGAUG	28419
2046	8984	CCACCAUC U CCCAAAU	10045	AUUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUGG	28420
2048	8982	ACCAUCUC C CAAAUUU	10046	AAAUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGGU	28421
2049	8981	CCAUCUCC C AAAUUUU	10047	AAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAUGG	28422
2050	8980	CAUCUCCC A AAUUUUUG	10048	CAAAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAUG	28423
2063	8967	UUUGGAUC U UCAACUGC	10049	GCAGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAAA	28424
2066	8964	GGAUCUUC A ACUGCUUC	10050	GAAGCAGU CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUCC	28425
2069	8961	UCUUCAAC U GCUUCUCU	10051	AGAGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGA	28426
2072	8958	UCAACUGC U UCUCUGGC	10052	GCCAGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUGA	28427
2075	8955	ACUGCUUC U CUGGCGCU	10053	AGCGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGU	28428
2077	8953	UGCUUCUC U GGCGCUCC	10054	GGAGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGCA	28429
2083	8947	UCUGGCGC U CCUCAUU	10055	AAUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGCCAGA	28430

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2085	8945	UGGCGCUC C UCCAUGA	10056	UCA AUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGCCA	28431
2086	8944	GGCGCUCC U CCAUGAU	10057	AUCA AUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCGCC	28432
2088	8942	CGCUCCUC C AUUGAUUC	10058	GAAUCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAGCG	28433
2089	8941	GCUCUCC A UUGAUUCU	10059	AGAAUCA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAGC	28434
2097	8933	AUUGAUUC U GCUCUUA	10060	UGAAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCAAU	28435
2100	8930	GAUUCUGC U CUUCAAC	10061	GUUUGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAAUC	28436
2102	8928	UUCUGCUC U UCAAACAU	10062	AUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCAGAA	28437
2105	8925	UGCUCUUC A AACAUUGC	10063	GCCAUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGCA	28438
2109	8921	CUUCAAC A UGGCACCC	10064	GGUGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGAAG	28439
2114	8916	AACAUGGC A CCAAAGC	10065	GCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGCAUGU	28440
2116	8914	CAUGGCAC C CAAAGCUG	10066	CAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCAUG	28441
2117	8913	AUGGCACC C AAAGCUGC	10067	GCAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCCAU	28442
2118	8912	UGGCACCC A AAGCUGCA	10068	UGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCCA	28443
2123	8907	CCCAAAGC U GCAUUGCU	10069	AGCAAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUGGG	28444
2126	8904	AAAGCUGC A UUGCUGUU	10070	AACAGCAA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCUUU	28445
2131	8899	UGCAUUGC U GUUGACCU	10071	AGGUCAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUGCA	28446
2138	8892	CUGUUGAC C UUUUUUAU	10072	AUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUAACAG	28447
2139	8891	UGUUGACC U UUCUUAUG	10073	CAUAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUAACA	28448
2143	8887	GACCUUUC U UAUUUAU	10074	AAUUAUA CUGAUGAG	GCCGUUAGGC	CGAA	IUAAGGUC	28449
2153	8877	AUGAAUUC C UCUCGAGA	10075	UCUCGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUCAU	28450
2154	8876	UGAAUUC C UCUCGAGAG	10076	CUCUCGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAUUA	28451
2156	8874	AAUUCUC U CGAGAGCA	10077	UGCUCUCG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAAU	28452
2164	8866	UCGAGAGC A CAUUCUGG	10078	CCAGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUCGA	28453
2166	8864	GAGAGCAC A UUCUGGGA	10079	UCCAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUCUC	28454
2170	8860	GCACAUUC U GGGACGUU	10080	AACGUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGUGC	28455
2183	8847	CGUUUUUC U CUGGCCAA	10081	UUGGCCAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAACG	28456
2185	8845	UUUUUCUC U GGCACAAA	10082	UUUUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAAA	28457
2189	8841	UCUCUGGC C AAAACGCG	10083	GCGUUUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAGAG	28458
2190	8840	CUCUGGCC A AAAACGCC	10084	GGCGUUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAGAG	28459
2198	8832	AAAAACGC C CACAACCA	10085	UGGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA	ICGUUUU	28460
2199	8831	AAAACGCC C ACAACCAG	10086	CUGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCGUUU	28461
2200	8830	AAACGCC A CAACCAGU	10087	ACUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGUU	28462
2202	8828	ACGCCAC A ACCAGUUG	10088	CAACUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCGU	28463
2205	8825	CCCACAAC C AGUUGGUG	10089	CACCAACU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGG	28464
2206	8824	CCACAAC A GUUGGUGG	10090	CCACCAAC CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGUGG	28465
2217	8813	UGUGGUC U CAUUGAGC	10091	GCUCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IACCAACA	28466
2219	8811	GUGGUCUC A UUGAGCAC	10092	GUGCUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGACCAC	28467
2226	8804	CAUUGAGC A CGUACUUC	10093	GAAGUACG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAUG	28468
2232	8798	GCACGUAC U UCACUCCU	10094	AGGAGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUACGUGC	28469
2235	8795	CGUACUUC A CUCCUUCU	10095	AGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGUACG	28470
2237	8793	UACUUCAC U CCUUCUGG	10096	CCAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGUA	28471
2239	8791	CUUCACUC C UUCUGGCG	10097	CGCCAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGAAG	28472
2240	8790	UUCACUCC U UCUGGCGG	10098	CCGCCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGAA	28473
2243	8787	ACUCCUUC U GCGGUUC	10099	GAACCGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGAGU	28474
2252	8778	GGCGUUC A GGAGCUUU	10100	AAAGCUCC CUGAUGAG	GCCGUUAGGC	CGAA	IAACCGCC	28475
2258	8772	UCAGGAGC U UUCGUGUC	10101	GACACGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCUGA	28476
2267	8763	UUCGUGUC C ACCUUCUC	10102	GAGAAGGU CUGAUGAG	GCCGUUAGGC	CGAA	IACACGAA	28477
2268	8762	UCGUGUCC A CCUUCUCU	10103	AGAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGACACGA	28478
2270	8760	GUGUCCAC C UUCUCUUU	10104	AAAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGACAC	28479
2271	8759	UGUCCACC U UCUCUUUG	10105	CAAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGACA	28480
2274	8756	CCACCUUC U CUUUGAAC	10106	GUUCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGUGG	28481
2276	8754	ACCUUCUC U UUGAACAC	10107	GUGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAGGU	28482
2283	8747	CUUUGAAC A CUCGUGC	10108	GCAGCGAG CUGAUGAG	GCCGUUAGGC	CGAA	IUUCAAAG	28483
2285	8745	UUGAACAC U CGCUGCUG	10109	CAGCAGCG CUGAUGAG	GCCGUUAGGC	CGAA	IUUUCAAA	28484
2289	8741	ACACUCGC U GCUGCCCG	10110	CGGGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGAGUGU	28485
2292	8738	CUCGUGC U GCCCAAG	10111	CUUCGGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCGAG	28486
2295	8735	GCUGCUGC C CGAAGGGA	10112	UCCUUCG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAGC	28487
2296	8734	CUGCUGCC C GAAGGGAG	10113	CUCCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGCAG	28488
2312	8718	GUAGUGUC A GUCAUGGC	10114	GCCAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	IACACUAC	28489
2316	8714	UGUCAGUC A UGGCCAUG	10115	CAUGGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IACUGACA	28490
2321	8709	GUCAUGGC C AUGGUGGU	10116	ACCACCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUGAC	28491

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2322	8708	UCAUGGCC A UGGUGGUA	10117	UACCACCA CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUGA	28492
2333	8697	GUGGUAAC A UUCGUGAU	10118	AUCACGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUACCAC	28493
2348	8682	AUGGUGUC C CAUGGUUU	10119	AAACCAUG CUGAUGAG	GCCGUUAGGC	CGAA IACACCAU	28494
2349	8681	UGGUGUCC C AUGGUUUU	10120	AAAACCAU CUGAUGAG	GCCGUUAGGC	CGAA IGACACCA	28495
2350	8680	GGUGUCCC A UGGUUUUG	10121	CAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA IGGACACC	28496
2367	8663	AGAGGAGC C UGACCACU	10122	AGUGGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCU	28497
2368	8662	GAGGAGCC U GACCACUC	10123	GAGUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUC	28498
2372	8658	AGCCUGAC C ACUCCAUT	10124	AAUGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUCAGGCU	28499
2373	8657	GCCUGACC A CUCCAUG	10125	CAUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGGC	28500
2375	8655	CUGACCAC U CCAUUGAC	10126	GUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGUCAG	28501
2377	8653	GACCACUC C AUUGACCA	10127	UGGUCAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGGUC	28502
2378	8652	ACCACUCC A UUGACCAG	10128	UGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGGU	28503
2384	8646	CCAUUGAC C AGCGAACU	10129	AGUUCGCU CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUGG	28504
2385	8645	CAUUGACC A GCGAACUG	10130	CAGUUCGC CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAUG	28505
2392	8638	CAGCGAAC U GCGGAGC	10131	GCUCGCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCGUG	28506
2401	8629	GCGGAGC C UGUGGGCU	10132	AGCCACA CUGAUGAG	GCCGUUAGGC	CGAA ICUCGCG	28507
2402	8628	GCGGAGCC U GUGGGCU	10133	AAGCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCGCG	28508
2409	8621	CUGUGGGC U UCACAUA	10134	UGAUGUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCACAG	28509
2412	8618	UGGGCUUC A CAUCAUA	10135	UUAUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCCA	28510
2414	8616	GGCUACAC A UCAUAACU	10136	AGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGCC	28511
2417	8613	UUCACAUC A UAACUGCC	10137	GCAGUUA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGAA	28512
2422	8608	AUCAUAAC U GCCGUGAU	10138	AUCACGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGAU	28513
2425	8605	AUAACUGC C GUGAUAGU	10139	ACUAUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUAU	28514
2436	8594	GAUAGUUC C AGGUUCUA	10140	UAGAACCU CUGAUGAG	GCCGUUAGGC	CGAA IAACTUAC	28515
2437	8593	AUAGUUC A GGUUCUAU	10141	AUAGAACC CUGAUGAG	GCCGUUAGGC	CGAA IGAACUAU	28516
2443	8587	CCAGGUUC U AUUGGGU	10142	ACCAUAU CUGAUGAG	GCCGUUAGGC	CGAA IAACCUGG	28517
2457	8573	GGUGGUUC U CAUCGUGG	10143	CCACGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAACCACC	28518
2459	8571	UGGUUCUC A UCGUGUG	10144	CACCACGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAACCA	28519
2469	8561	CGUGGUC C ACGUCGAA	10145	UUCGACGU CUGAUGAG	GCCGUUAGGC	CGAA ICACCAG	28520
2470	8560	GUGGUGCC A CGUCGAAC	10146	GUUCGACG CUGAUGAG	GCCGUUAGGC	CGAA IGCACCAC	28521
2479	8551	CGUCGAAC U GUACUCAC	10147	GUGAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUUCGACG	28522
2484	8546	AACUGUAC U CACGCCUG	10148	CAGGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IUACAGUU	28523
2486	8544	CUGUACUC A CGCCUGAG	10149	CUCAGGCG CUGAUGAG	GCCGUUAGGC	CGAA IAGUACAG	28524
2490	8540	ACUCACGC C UGAGUCGU	10150	ACGACUCA CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAGU	28525
2491	8539	CUCACGCC U GAGUCGU	10151	AACGACUC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAG	28526
2501	8529	AGUCGUUC A AUCCUGU	10152	AACAGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAACGACU	28527
2505	8525	GUUCAUC C UGUUCUG	10153	CAAGAACA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAC	28528
2506	8524	UUCAAUCC U GUUCUGA	10154	UCAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGAA	28529
2511	8519	UCCUGUUC U UGAUUUA	10155	UAAAUA CUGAUGAG	GCCGUUAGGC	CGAA IAACAGGA	28530
2521	8509	GAUUUAC U GGUGUCUG	10156	CAGACACC CUGAUGAG	GCCGUUAGGC	CGAA IUAAAUC	28531
2528	8502	CUGGUGUC U GAGUUGAG	10157	CUCAACUC CUGAUGAG	GCCGUUAGGC	CGAA IACACCAG	28532
2538	8492	AGUUGAGC A GGGUUUU	10158	AAAACCC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUC	28533
2548	8482	GGGUUUUC C CACCGCCC	10159	GGCGGUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAACCC	28534
2549	8481	GGUUUUC C ACCGCCU	10160	AGGGCGG CUGAUGAG	GCCGUUAGGC	CGAA IGAAAAC	28535
2550	8480	GUUUUCC A CCGCCUG	10161	CAGGGCGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAA	28536
2552	8478	UUUCCAC C GCCUGGU	10162	ACCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAA	28537
2555	8475	CCACCGC C CUGGUUC	10163	GGAACCG CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGG	28538
2556	8474	CCACCGC C UGGUCCA	10164	UGGAACCA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGG	28539
2557	8473	CACCGCC U GGUUCCAC	10165	GUGGAACC CUGAUGAG	GCCGUUAGGC	CGAA IGGCGUG	28540
2563	8467	CUUGGUUC C ACUCCCA	10166	UGGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAACCAGG	28541
2564	8466	CUGGUUCC A CUUCCAA	10167	UUGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAACCAG	28542
2566	8464	GGUCCAC U UCCCAAGU	10168	ACUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAACC	28543
2569	8461	UCCACUUC C CAAGUUUA	10169	UAAACUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGUGGA	28544
2570	8460	CCACUUC C AAGUUUAC	10170	GUAAACU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUGG	28545
2571	8459	CACUCC C AGUUUACA	10171	UGUAAAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGUGG	28546
2579	8451	AAGUUUAC A UCUCCUC	10172	GAGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUAAAUU	28547
2582	8448	UUUACAUC U UCCUCGUA	10173	UACGAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUAAA	28548
2585	8445	ACAUCUUC C UCGUAUUG	10174	CAAUACGA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUGU	28549
2586	8444	CAUCUUC U CGUAUUGG	10175	CCAAUACG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAUG	28550
2599	8431	UUGGGGUC C CUUCCAGG	10176	CCUGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IACCCAA	28551
2600	8430	UGGGGUCC C UUCAGGU	10177	ACCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IGACCCA	28552

2601	8429	GGGGUCCC U UCCAGGUC	10178	GACCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACCCC	28553
2604	8426	GUCCCUUC C AGGUCCUU	10179	AAGGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGGAC	28554
2605	8425	UCCCUUCC A GGUCCUUU	10180	AAAGGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGGGA	28555
2610	8420	UCCAGGUC C UUUUUUCC	10181	GGAAAAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUGGA	28556
2611	8419	CCAGGUCC U UUUUUCCA	10182	UGGAAAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCUGG	28557
2618	8412	CUUUUUUC C AUUCUUC	10183	GGAAGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAAAAG	28558
2619	8411	UUUUUUCC A UUCUUCU	10184	AGGAAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAAAAA	28559
2623	8407	UUCCAUUC U UCCUAGGA	10185	UCCUAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGGAA	28560
2626	8404	CAUUCUUC C UAGGAGCA	10186	UGCUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAAUG	28561
2627	8403	AUUCUUC U AGGAGCAC	10187	GUGCUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAAU	28562
2634	8396	CUAGGAGC A CCUGGCUG	10188	CAGCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCUAG	28563
2636	8394	AGGAGCAC C UGGCUGGU	10189	ACCAGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUCU	28564
2637	8393	GGAGCACC U GGCUGGUC	10190	GACCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCUC	28565
2641	8389	CACCUGGC U GGUCAUAU	10191	AUAUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGGUG	28566
2646	8384	GGCUGGUC A UAUUCACU	10192	AGUGAAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAGCC	28567
2652	8378	UCAUAUUC A CUGAAUGU	10193	ACAUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUAUGA	28568
2654	8376	AUAUUCAC U GAAUGUAC	10194	GUACAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAUUA	28569
2663	8367	GAAUGUAC C ACAUUGCC	10195	GGCAAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACAUCU	28570
2664	8366	AAUGUACC A CAUUGCCU	10196	AGGCAAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUACAUU	28571
2666	8364	UGUACCAC A UUGCCUGA	10197	UCAGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUACA	28572
2671	8359	CACAUUGC C UGAAGCUC	10198	GAGCUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUGUG	28573
2672	8358	ACAUUGCC U GAAGCUCG	10199	CGAGCUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAUGU	28574
2678	8352	CCUGAAGC U CGACUCAC	10200	GUGAGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICTUCAGG	28575
2683	8347	AGCUCGAC U CACCCAAU	10201	AUUGGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGAGCU	28576
2685	8345	CUCGACUC A CCCAAUAC	10202	GUAUUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCGAG	28577
2687	8343	CGACUCAC C CAAUACAU	10203	AUGUAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGUCG	28578
2688	8342	GACUCACC C AAUACAUC	10204	GAUGUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAGUC	28579
2689	8341	ACUCACCC A AUACAUCU	10205	AGAUGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGAGU	28580
2694	8336	CCCAAUAC A UCUCGUC	10206	GCACGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUUGGG	28581
2697	8333	AAUACAUC U CGUGCGUG	10207	CACGCACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUAUUU	28582
2712	8318	UGGAAUUC C GUGAGAGU	10208	ACTUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUCCA	28583
2728	8302	UGGGUUUC U GACCAGUC	10209	GACUGGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACCCA	28584
2732	8298	UUUCUGAC C AGUCCCC	10210	GGGGGACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGAAA	28585
2733	8297	UUCUGACC A GUCCCCC	10211	GGGGGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCAGAA	28586
2737	8293	GACCAGUC C CCCCCAU	10212	AUGGGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGGUC	28587
2738	8292	ACCAGUCC C CCCCCAU	10213	UAUGGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACUGGU	28588
2739	8291	CCAGUCCC C CCCCACU	10214	GUUUGGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACUGG	28589
2740	8290	CAGUCCCC C CCAUACC	10215	GGUAUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGACUG	28590
2741	8289	AGUCCCCC C CCAUACCG	10216	CGUAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGGACU	28591
2742	8288	GUCCCCC C CAUACCGG	10217	CCGUUAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGGGAC	28592
2743	8287	UCCCCC C AUACCGGC	10218	GCCGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGGGGA	28593
2744	8286	CCCCCCC A UACCGCG	10219	CGCCGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGGGGG	28594
2748	8282	CCCCAUAC C GGCGUUGG	10220	CCAACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAUGGGG	28595
2760	8270	GUUGGAGC A GCUCCAUC	10221	GAUGGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCCAAC	28596
2763	8267	GGAGCAGC U CCAUCUUC	10222	GAAGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCUC	28597
2765	8265	AGCAGCUC C AUCUUCU	10223	GAGAAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUCU	28598
2766	8264	GCAGCUC A UCUUCUCU	10224	AGAGAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUGC	28599
2769	8261	GCUCCAUC U UCUUAUG	10225	CAUAGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGAGC	28600
2772	8258	CCAUCUUC U CUAUGACU	10226	AGUCAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAUGG	28601
2774	8256	AUCUUCUC U AUGACUUU	10227	AAAGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAGAU	28602
2780	8250	UCUAUGAC U UUCGGCAU	10228	AUGCCGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUAGA	28603
2787	8243	CUUUCGGC A UGUAGGGG	10229	CCCCUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGAAAG	28604
2797	8233	GUAGGGGC A GAGCACCU	10230	AGGUGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCCUAC	28605
2802	8228	GGCAGAGC A CCUACAG	10231	CGUGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGCC	28606
2804	8226	CAGAGCAC C UUCACGCA	10232	UGCUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUCUG	28607
2805	8225	AGAGCACC U UCACGCAA	10233	UUGCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGCUCU	28608
2808	8222	GCACCUUC A CGAAAAU	10234	AUUUUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGUGC	28609
2812	8218	CUUCACGC A AAUUCUCC	10235	GGGAAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAAG	28610
2819	8211	CAAAUUC C CUUGGCC	10236	GGGCCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUUUG	28611
2820	8210	AAAUUC C UUGGCCU	10237	AGGGCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUUUU	28612
2821	8209	AAAUUC C UGGCCUC	10238	GAGGGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAAUUU	28613

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2826	8204	CCCUUGGC	C	CUCGGUGC	10239	GCACCGAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGGG	28614
2827	8203	CCUUGGCC	C	UCGGUGCA	10240	UGCACCGA	CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAAGG	28615
2828	8202	CUUGGGCC	U	CGGUGCAG	10241	CUGCACCG	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCAAG	28616
2835	8195	CUCGGUGC	A	GCCAGUCC	10242	GGACUGGC	CUGAUGAG	GCCGUUAGGC	CGAA	ICACCGAG	28617
2838	8192	GGUGCAGC	C	AGUCCUCA	10243	UGAGGACU	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCACC	28618
2839	8191	GUGCAGCC	A	GUCCUCA	10244	UUGAGGAC	CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGCAC	28619
2843	8187	AGCCAGUC	C	UCAACCAU	10245	AUGGUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IACUGGCU	28620
2844	8186	GCCAGUCC	U	CAACCAU	10246	AAUGGUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGACUGGC	28621
2846	8184	CAGUCCUC	A	ACCAUUC	10247	GAAAUUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGGACUG	28622
2849	8181	UCCUCAAC	C	AUUUCAAG	10248	CUUGAAAU	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAGGA	28623
2850	8180	CCUCAACC	A	UUUCAAGG	10249	CCUUGAAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGAGG	28624
2855	8175	ACCAUUC	A	AGGACCCG	10250	CGGGUCCU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAAUGGU	28625
2861	8169	UCAAGGAC	C	CGAAUCGU	10251	CGGAUUCG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUUGA	28626
2862	8168	CAAGGACC	C	GAAUCGUC	10252	GACGAUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCUUG	28627
2871	8159	GAAUCGUC	C	UAUGCUCU	10253	AGAGCAUA	CUGAUGAG	GCCGUUAGGC	CGAA	IACGAUUC	28628
2872	8158	AAUCGUCC	U	AUGCUCUU	10254	AAGAGCAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGACGAUU	28629
2877	8153	UCCUAUGC	U	CUUCAACC	10255	GGUUGAAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAUAGGA	28630
2879	8151	CUAUGCUC	U	UCAACCUC	10256	GAGGUUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAGCAUAG	28631
2882	8148	UGCUCUUC	A	ACCUCAGC	10257	GCUGAGGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGCA	28632
2885	8145	UCUUCAAC	C	UCAGCACU	10258	AGUGCUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAAGA	28633
2886	8144	CUUCAACC	U	CAGCACUU	10259	AAGUGCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IGUUGAAG	28634
2888	8142	UCAACCUC	A	GCACUUGA	10260	UCAAGUGC	CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUUGA	28635
2891	8139	ACCUCAGC	A	CUUGACGA	10261	UCGUCAAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAGGU	28636
2893	8137	CUCAGCAC	U	UGACGAGG	10262	CCUCGUCA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUGAG	28637
2904	8126	ACGAGGAC	U	CUCCGAUG	10263	CAUCGGAG	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUCGU	28638
2906	8124	GAGGACUC	U	CCGAUGUC	10264	GACAUCGG	CUGAUGAG	GCCGUUAGGC	CGAA	IAGUCCUC	28639
2908	8122	GGACUCUC	C	GAUGUCAC	10265	GUGACAUC	CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGUCC	28640
2915	8115	CCGAUGUC	A	CAAAGGAG	10266	CUCCUUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACAUCGG	28641
2917	8113	GAUGUCAC	A	AAGGAGGG	10267	CCCUCUUU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGACAUC	28642
2930	8100	AGGGUGUC	A	CAACACUC	10268	GAGUGUUG	CUGAUGAG	GCCGUUAGGC	CGAA	IACACCCU	28643
2932	8098	GGUGUCAC	A	ACACUCAG	10269	GAGAGUGU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGACACC	28644
2935	8095	GUCACAAC	A	CUCAGAAG	10270	CUUCUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUGAC	28645
2937	8093	CACAACAC	U	CAGAAGGU	10271	ACCUUCUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUGUG	28646
2939	8091	CAACACUC	A	GAAGGUCU	10272	AGACCUUC	CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGUUG	28647
2947	8083	AGAAGGUC	U	GUAGAACA	10273	UGUUCUAC	CUGAUGAG	GCCGUUAGGC	CGAA	IACCUUCU	28648
2955	8075	UGUAGAAC	A	CAUCCACU	10274	AGUGGAUG	CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUACA	28649
2957	8073	UAGAACAC	A	UCCACUCC	10275	GGAGUGGA	CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUCUA	28650
2960	8070	AACACAUC	C	ACUCCACU	10276	AGUGGAGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGUU	28651
2961	8069	ACACAUC	A	CUCCACUC	10277	GAGGUGAG	CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGUGU	28652
2963	8067	ACAUCCAC	U	CCACUCUU	10278	AAGAGUGG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAUGU	28653
2965	8065	AUCCACUC	C	ACUCUUCA	10279	UGAAGAGU	CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGAU	28654
2966	8064	UCCACUCC	A	CUCUUCAU	10280	AUGAAGAG	CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGGA	28655
2968	8062	CACUCCAC	U	CUUCAUGG	10281	CCAUGAAG	CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAGUG	28656
2970	8060	CUCCACUC	U	UCAUGGUG	10282	CACCAUGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGGAG	28657
2973	8057	CACUCUUC	A	UGGUGACA	10283	UGUCACCA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGUG	28658
2981	8049	AUGGUGAC	A	AUGUUGCA	10284	UGGAACAU	CUGAUGAG	GCCGUUAGGC	CGAA	IUCACCAU	28659
2988	8042	CAAUGUUC	C	AUCCAUA	10285	UUUUGGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IAACAUUG	28660
2989	8041	AAUGUUC	A	UCCAUAAC	10286	GUUUGGAU	CUGAUGAG	GCCGUUAGGC	CGAA	IGAACAUA	28661
2992	8038	GUCCAUC	C	AUAACUUU	10287	AAAGUUUA	CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGAAC	28662
2993	8037	UCCAUC	A	UAACUUUG	10288	CAAAGUUA	CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGGAA	28663
2998	8032	UCCAUAAC	U	UUGCACUA	10289	UAGUGCAA	CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGGA	28664
3003	8027	AACUUUGC	A	CUAGUUGG	10290	CCAACUAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICAAAGUU	28665
3005	8025	CUUUGCAC	U	AGUUGGGG	10291	CCCCAACU	CUGAUGAG	GCCGUUAGGC	CGAA	IUGCAAAG	28666
3015	8015	GUUGGGGC	U	CUUCAUGU	10292	ACAUGAAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAAC	28667
3017	8013	UGGGGCUC	U	UCAUGUCC	10293	GGACAGA	CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCCCA	28668
3020	8010	GGCUCUUC	A	UGUCCGGG	10294	CCCAGACA	CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGCC	28669
3025	8005	UUCAUGUC	C	GGGACCGC	10295	GCCGUCCC	CUGAUGAG	GCCGUUAGGC	CGAA	IACAUAGAA	28670
3031	7999	UCCGGGAC	C	GCCCUUUG	10296	CAAAGGGC	CUGAUGAG	GCCGUUAGGC	CGAA	IUCCGGGA	28671
3034	7996	GGGACCGC	C	CUUUGUGU	10297	ACACAAAG	CUGAUGAG	GCCGUUAGGC	CGAA	ICGGUCCC	28672
3035	7995	GGACCGCC	C	UUUGUGUA	10298	UACACAAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGUCC	28673
3036	7994	GACCGCCC	U	UUGUGUAC	10299	GUACACAA	CUGAUGAG	GCCGUUAGGC	CGAA	IGGCGGUC	28674

3045	7985	UUGUGUAC C CUCUGACU	10300	AGUCAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACACAA	28675
3046	7984	UGUGUACC C UCUGACUU	10301	AAGUCAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUACACA	28676
3047	7983	GUGUACCC U CUGACUUC	10302	GAAGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUACAC	28677
3049	7981	GUACCCUC U GACUUCUU	10303	AAGAAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGUAC	28678
3053	7977	CCUCUGAC U UCUGGAC	10304	GUCCAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGAGG	28679
3056	7974	CUGACUUC U UGGACUCU	10305	AGAGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUCAG	28680
3062	7968	UCUUGGAC U CUUUUUUG	10306	CAAAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAAGA	28681
3064	7966	UUGGACUC U UUUUUGGG	10307	CCCCAAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCCAA	28682
3077	7953	UGGUUUGC C AUUAUAGUA	10308	UACUAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACCCA	28683
3078	7952	GGGUUGCC A UAUAGUAA	10309	UUACUAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAACCC	28684
3088	7942	AUAGUAAC A CCAACCGC	10310	GCGGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUACUAU	28685
3090	7940	AGUAACAC C AACCGCCU	10311	AGGCGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUAU	28686
3091	7939	GUAACACC A ACCGCCUC	10312	GAGGCGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUUAU	28687
3094	7936	ACACCAAC C GCCUCUUC	10313	GAAGAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGUGU	28688
3097	7933	CCAACCGC C UCUCACAC	10314	GUGGAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGUUGG	28689
3098	7932	CAACCGCC U CUUCCACA	10315	UGUGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGUUG	28690
3100	7930	ACCGCCUC U UCCACAUC	10316	GAUGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCGGU	28691
3103	7927	GCCUCUUC C ACAUCCAA	10317	UUGGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAGGC	28692
3104	7926	CCUCUUC C CAUCCAAG	10318	CUUGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAGG	28693
3106	7924	UCUUCAC A UCCAAGGU	10319	ACCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAAGA	28694
3109	7921	UCCACAUC C AAGGUCAA	10320	UUGACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGUGGA	28695
3110	7920	CCACAUC A AGGUCAAU	10321	AUUGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGUGG	28696
3116	7914	CCAAGGUC A AUCACUUU	10322	AAAGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUGG	28697
3120	7910	GGUCAAU C CUUUCCG	10323	CGGAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGACC	28698
3122	7908	UCAAUAC U UUUCGAC	10324	GUCGGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUUGA	28699
3127	7903	CACUUUUC C GACCGGUU	10325	AACCGGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGUG	28700
3131	7899	UUUCCGAC C GGUUCGAG	10326	CUCGAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGGAAA	28701
3144	7886	CGAGAAAC C UCCGUUCG	10327	CGAACGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCUCG	28702
3145	7885	GAGAAACC U CCGUUCGA	10328	UCGAACGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUUCUC	28703
3147	7883	GAAACCUC C GUUCGACC	10329	GGUCGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUUUC	28704
3155	7875	CGUUCGAC C AGCCAUCU	10330	AGAUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGAACG	28705
3156	7874	GUUCGACC A GCCAUCUC	10331	GAGAUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCGAAC	28706
3159	7871	CGACCAGC C AUCUCAGU	10332	ACUGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGUCG	28707
3160	7870	GACCAGCC A UCUCAGUU	10333	AACUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGGUC	28708
3163	7867	CAGCCAUC U CAGUUUUG	10334	CAAAACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGCGU	28709
3165	7865	GCAUCUC A GUUUUGCU	10335	AGCAAAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAUGGC	28710
3173	7857	AGUUUUGC U GUGCCCUU	10336	AGGGGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAACU	28711
3178	7852	UGCUGUGC C CCUAGAGA	10337	UCUCUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACAGCA	28712
3179	7851	GCUGUGCC C CUAGAGAC	10338	GUCUCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACAGC	28713
3180	7850	CUGUGCCC C UAGAGACU	10339	AGUCUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCACAG	28714
3181	7849	UGUGCCCC U AGAGACUG	10340	CAGUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCACA	28715
3188	7842	CUAGAGAC U GGAUGCCC	10341	GGGCAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCUAG	28716
3195	7835	CUGGAUGC C CUCCAGUG	10342	CACUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCCAG	28717
3196	7834	UGGAUGCC C UCCAGUGA	10343	UCACUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAUCCA	28718
3197	7833	GGAUGCCC U CCAGUGAC	10344	GUCACUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAUCC	28719
3199	7831	AUGCCUC C AGUGACAU	10345	AUGUCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCAU	28720
3200	7830	UGCCCUCC A GUGACAUU	10346	AAUGUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGGCA	28721
3206	7824	CCAGUGAC A UUGCCUUC	10347	GAAGGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCACUGG	28722
3211	7819	GACAUUGC C UUCUUUCC	10348	GGAAAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUGUC	28723
3212	7818	ACAUUGCC U UCUUCCU	10349	AGGAAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAAUGU	28724
3215	7815	UUGCCUUC U UUCUGGC	10350	GCCAGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGCAA	28725
3219	7811	CUUCUUUC C UGGCGUGU	10351	ACACGCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGAA	28726
3220	7810	UUCUUUCC U GGCUGUGU	10352	AACACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAA	28727
3233	7797	UGUUUUGC C GCUGAGCG	10353	CGUCAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAACA	28728
3236	7794	UUUGCCGC U GAGCGAUC	10354	GAUCGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCAAAA	28729
3248	7782	CGAUCGAC U UCGAUGAU	10355	AUCAUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGAUCG	28730
3260	7770	AUGAUGGC C UCUUUGCG	10356	CGCAAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUCAU	28731
3261	7769	UGAUGGCC U CUUUGCGG	10357	CCGCAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAUCA	28732
3263	7767	AUGGCCUC U UUGCGGUA	10358	UACGCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCCAU	28733
3273	7757	UGCGGUAC C UAGUGAAC	10359	GUUCACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACCGCA	28734
3274	7756	GCGGUACC U AGUGAACU	10360	AGUUCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUACCGC	28735

Table IX

3282	7748	UAGUGAAC U CUUCUUUU	10361	AAAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCACUA	28736
3284	7746	GUGAACUC U UCUUUUGU	10362	ACAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUUCAC	28737
3287	7743	AACUCUUC U UUUGUCAU	10363	AUGACAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGUU	28738
3294	7736	CUUUUGUC A UCUGGUUG	10364	CAACCAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAAAAG	28739
3297	7733	UUGUCAUC U GGUUGAGU	10365	ACUCAACC CUGAUGAG	GCCGUUAGGC	CGAA IAUGACAA	28740
3307	7723	GUUGAGUC U UUCUUUCC	10366	GGAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IACUCAAC	28741
3311	7719	AGUCUUUC U UUCCAAAC	10367	GUUUGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGACU	28742
3315	7715	UUUCUUUC C AAACCUCU	10368	AGAGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAAA	28743
3316	7714	UUCUUUCC A AACCUCUC	10369	GAGAGGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAAAGAA	28744
3320	7710	UUCCAAAC C UCUCCTAA	10370	UUGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGAA	28745
3321	7709	UCCAAACC U CUCCCAA	10371	CUUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUUGGA	28746
3323	7707	CAAACUC U CCAAGGU	10372	ACCUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUUG	28747
3325	7705	AACCUCUC C CAAGGUC	10373	GCACCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGUU	28748
3326	7704	ACCUCUCC C AAGGUGCG	10374	CGCACCUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGGU	28749
3327	7703	CCUCUCCC A AGGUGCGU	10375	ACGCACCU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGG	28750
3337	7693	GGUGCGUC C UUUGCCC	10376	GGGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA IACGCACC	28751
3338	7692	GUGCGUCC U UUUGCCCC	10377	GGGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA IGACGCAC	28752
3344	7686	CCUUUUGC C CCACCUCU	10378	AGAGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAGG	28753
3345	7685	CUUUUGCC C CACCUCUU	10379	AAGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAAG	28754
3346	7684	UUUUGCCC C ACCUCUUU	10380	AAAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAAA	28755
3347	7683	UUUGCCCC A CCUCUUUU	10381	AAAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGGCAA	28756
3349	7681	UGCCCCAC C UCUUUUUA	10382	UAAAAAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGGGCA	28757
3350	7680	GCCCCACC U CUUUUUAG	10383	CUAAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGGGC	28758
3352	7678	CCCACCUC U UUUUAGUC	10384	GACUAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGGG	28759
3361	7669	UUUUAGUC C UGUUUUUU	10385	AAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA IACUAAAA	28760
3362	7668	UUUAGUCC U GGUUUUUC	10386	GAAAAACC CUGAUGAG	GCCGUUAGGC	CGAA IGACUAAA	28761
3371	7659	GGUUUUUC C AUGUUCUU	10387	AAGAACAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAAACC	28762
3372	7658	GUUUUUCC A UGUUCUUU	10388	AAAGAACA CUGAUGAG	GCCGUUAGGC	CGAA IGAAAAAC	28763
3378	7652	CCAUGUCC U UUAUGAGU	10389	ACUCAUAA CUGAUGAG	GCCGUUAGGC	CGAA IAACAUUG	28764
3390	7640	UGAGUGUC C AUGUUUUG	10390	CAUAAACU CUGAUGAG	GCCGUUAGGC	CGAA IACACUCA	28765
3391	7639	GAGUGUCC A UGUUAUGG	10391	CCAUAACA CUGAUGAG	GCCGUUAGGC	CGAA IGACACUC	28766
3406	7624	GGAUAGAC A UGACAACC	10392	GGUUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUAUCC	28767
3411	7619	GACAUGAC A ACCAACC	10393	GGGUUGGU CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGUC	28768
3414	7616	AUGACAAC C AACCCCA	10394	UGGGGGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAU	28769
3415	7615	UGACAACC A ACCCCAC	10395	GUGGGGGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCA	28770
3418	7612	CAACCAAC C CCCACGCA	10396	UGCGUGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUUG	28771
3419	7611	AACCAACC C CCACGCAU	10397	AUGCGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUU	28772
3420	7610	ACCAACCC C CACGCAUG	10398	CAUGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGGU	28773
3421	7609	CCAACCCC C ACGCAUGA	10399	UCAUGCGU CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUGG	28774
3422	7608	CAACCCCC A CGCAUGAU	10400	AUCAUGCG CUGAUGAG	GCCGUUAGGC	CGAA IGGGUUG	28775
3426	7604	CCCCACGC A UGAUGUGG	10401	CCACAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICGUGGGG	28776
3436	7594	GAUGUGGC A GAGUCCGA	10402	UCGGACUC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAU	28777
3442	7588	GCAGAGUC C GAUGGCAG	10403	CUGCCAUC CUGAUGAG	GCCGUUAGGC	CGAA IACUCUGC	28778
3449	7581	CCGAUGGC A GUUGUUGC	10404	GCAACAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCCG	28779
3462	7568	UUGCGUUC C AAACAGAG	10405	CUCUGUUU CUGAUGAG	GCCGUUAGGC	CGAA IAACGCAA	28780
3463	7567	UGCGUUC C AACAGAGC	10406	GCUCUGUU CUGAUGAG	GCCGUUAGGC	CGAA IGAACGCA	28781
3467	7563	UCCCAAAC A GAGCUUGC	10407	GCAAGCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGAA	28782
3472	7558	AACAGAGC U UGCUCU	10408	AUGGAGCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCUGUU	28783
3476	7554	GAGCUUGC U CCAUUCUC	10409	GAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGCUC	28784
3478	7552	GCUUGCUC C AUUCUCCC	10410	GGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAGC	28785
3479	7551	CUUGCUC C AUUCUCCA	10411	UGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAAG	28786
3483	7547	CUCCAUC U CCCAAAGC	10412	GCUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGAG	28787
3485	7545	CCAUCUC C CAAAGCGU	10413	ACGCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUGG	28788
3486	7544	CAUUCUC C AAAGCGUC	10414	GACGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAU	28789
3487	7543	AUUCUCCC A AAGCGUCA	10415	UGACGCUU CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAAU	28790
3495	7535	AAAGCGUC A CCGUGCG	10416	CGCAGCGG CUGAUGAG	GCCGUUAGGC	CGAA IUGACU	28791
3497	7533	AGCGUCAC C GCUGCGG	10417	GCCGCGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACGCU	28792
3500	7530	GUCACCGC U GCGGCGU	10418	ACGGCCGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGAC	28793
3506	7524	GCUGCGGC C GUGAUCAA	10419	UUGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGCAGC	28794
3513	7517	CCGUGAUC A AAUUCCG	10420	CGAAUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUACGG	28795
3520	7510	CAAAUUC C GGCUCUC	10421	GAGAAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUUG	28796

3524	7506	AUCCGGGC U UCUCGUAC	10422	GUACGAGA CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGAU	28797
3527	7503	CCGGCUUC U CGUACUGU	10423	ACAGUACG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCCGG	28798
3533	7497	UCUCGUAC U GUCUUCAC	10424	GUGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA	IUACGAGA	28799
3537	7493	GUACUGUC U UCACAGAC	10425	GUCUGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IACAGUAC	28800
3540	7490	CUGUCUUC A CAGACGGG	10426	CCCUCUCG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGACAG	28801
3542	7488	GUCUUCAC A GACGGGUU	10427	AACCCGUC CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAGAC	28802
3552	7478	ACGGGUUC A CUACUACU	10428	AGUAGUAG CUGAUGAG	GCCGUUAGGC	CGAA	IAACCCGU	28803
3554	7476	GGGUUCAC U ACUACUGC	10429	GCAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGAACCC	28804
3557	7473	UUCACUAC U ACUGCAGC	10430	GCUGCAGU CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUGAA	28805
3560	7470	ACUACUAC U GCAGCUAG	10431	CUAGCGUC CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUAGU	28806
3563	7467	ACUACUGC A GCUAGAGA	10432	UCUCUAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUAGU	28807
3566	7464	ACUGCAGC U AGAGACAC	10433	GUGUCUCU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCAGAU	28808
3573	7457	CUAGAGAC A CCAAGAUC	10434	GAUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUCUCUAG	28809
3575	7455	AGAGACAC C AAGAUCAG	10435	CUGAUCUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCUCU	28810
3576	7454	GAGACACC A AGAUCAGC	10436	GCUGAUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUCUC	28811
3582	7448	CCAAGAUC A GCAUGAUC	10437	GAUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCUUGG	28812
3585	7445	AGAUCAGC A UGAUCUGU	10438	ACAGAUAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAUCU	28813
3591	7439	GCAUGAUC U GUCCAACU	10439	AGUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAUGC	28814
3595	7435	GAUCUGAC C AACUUUCU	10440	AGAAAGUU CUGAUGAG	GCCGUUAGGC	CGAA	IACAGAUC	28815
3596	7434	AUCUGUCC A ACUUUCUU	10441	AAGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGAU	28816
3599	7431	UGUCCAAC U UUCUUCUG	10442	CAGAAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGACA	28817
3603	7427	CAACUUUC U UCUGCAUG	10443	CAUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGUUG	28818
3606	7424	CUUUCUUC U GCAUGAUG	10444	CAUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAAAG	28819
3609	7421	UCUUCUGC A UGAUGGGU	10445	ACCCAUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAAGA	28820
3627	7403	UGGUGCGC U CUAAUUCU	10446	AGAAUUAG CUGAUGAG	GCCGUUAGGC	CGAA	ICGCACCA	28821
3629	7401	GUGGCGUC U AAUUCUGG	10447	CCAGAAUU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGCAC	28822
3635	7395	UCUAAUUC U GGGACGUC	10448	GACGUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUUAGA	28823
3644	7386	GGGACGUC C GUGGCCAC	10449	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	IACGUCCC	28824
3650	7380	UCCGUGGC C ACGAUGCC	10450	GGCAUCGU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAACGA	28825
3651	7379	CCGUGGCC A CGAUGCCA	10451	UGGCAUCG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACGG	28826
3658	7372	CACGAUGC C AUCCACUA	10452	UAGUGGAU CUGAUGAG	GCCGUUAGGC	CGAA	ICAUCGUG	28827
3659	7371	ACGAUGCC A UCCACUAC	10453	GUAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUCGU	28828
3662	7368	AUGCCAUC C ACUACAGC	10454	GCUGUAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGCAU	28829
3663	7367	UGCCAUGC A CUACAGCG	10455	CGCUGUAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGGCA	28830
3665	7365	CCAUCCAC U ACAGCGUU	10456	AACGCUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAUGG	28831
3668	7362	UCCACUAC A GCGUUCUU	10457	AGAAACGC CUGAUGAG	GCCGUUAGGC	CGAA	IUAGUGGA	28832
3675	7355	CAGCGUUC U UCAUGAUU	10458	AAUCAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACGCUG	28833
3678	7352	CGUUCUUC A UGAUCCG	10459	CGGAAUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAACG	28834
3685	7345	CAUGAUUC C GGCCGUG	10460	CAGCGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCAUG	28835
3689	7341	AUCCGGGC C GCUGUCCG	10461	CGGACAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGAU	28836
3692	7338	CCGGCCGC U GUCCGCCG	10462	CGGCGGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCCGG	28837
3696	7334	CCGUGUUC C GCCGUGG	10463	CCAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGG	28838
3699	7331	CUGUCCGC C GCUGGGU	10464	AGCCCAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGACAG	28839
3702	7328	UCCGCCGC U GGGCUGAG	10465	CUCAGCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCGGA	28840
3707	7323	CGCUGGGC U GAGCGCAU	10466	AUGCGCUC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGCG	28841
3714	7316	CUGAGCGC A UUGCCUCA	10467	UAGGCAAA CUGAUGAG	GCCGUUAGGC	CGAA	ICGCUCAG	28842
3719	7311	CGCAUUGC C UCAGCUUG	10468	CAAGCUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUGCG	28843
3720	7310	GCAUUGCC U CAGCUUGC	10469	GCAAGCUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAUGC	28844
3722	7308	AUUGCCUC A GCUUGCCA	10470	UGGCAAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGGCAAU	28845
3725	7305	GCCUCAGC U UGCCAACC	10471	GGUUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAGGC	28846
3729	7301	CAGCUUGC C AACCGGGA	10472	UCCCGGUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAAAGCUG	28847
3730	7300	AGCUUGCC A ACCGGGAA	10473	UUCCCGGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAGCU	28848
3733	7297	UUGCCAAC C GGAACCA	10474	UGGUUCCC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGCAA	28849
3740	7290	CCGGGAAC C AUGUAGGC	10475	GCCUACAU CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGCCG	28850
3741	7289	CGGGAACC A UGUAGGCA	10476	UGCCUACA CUGAUGAG	GCCGUUAGGC	CGAA	IUUCGCCG	28851
3749	7281	AUGUAGGC A UAGUGGCA	10477	UGCCACUA CUGAUGAG	GCCGUUAGGC	CGAA	ICCUACAU	28852
3757	7273	AUAGUGGC A AAAAAGGA	10478	UCCUUUUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUAU	28853
3773	7257	AGUGUUGC C GCUGUUAC	10479	GUAACAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAACACU	28854
3776	7254	GUUGCCGC U GUUACCGU	10480	ACGGUAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCAAC	28855
3782	7248	GCUGUUAC C GUUACCGU	10481	ACCGUUAC CUGAUGAG	GCCGUUAGGC	CGAA	IUAACAGC	28856
3800	7230	AGGGUGAC U UGUCCCCA	10482	UGGGGACA CUGAUGAG	GCCGUUAGGC	CGAA	IUCACCCU	28857

Table IX

3805	7225	GACTUGUC C CCAGCAUC	10483	GAUGCUGG CUGAUGAG	GCCGUUAGGC	CGAA IACAAGUC	28858
3806	7224	ACUUGUCC C CAGCAUCC	10484	GGAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGACAAGU	28859
3807	7223	CUUGUCCC C AGCAUCCG	10485	CGGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGACAAG	28860
3808	7222	UUGUCCCC A GCAUCCGG	10486	CCGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGACAA	28861
3811	7219	UCCCCAGC A UCCGGCUG	10487	CAGCCGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGGA	28862
3814	7216	CCAGCAUC C GGCUGCUA	10488	UAGCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUGCUGG	28863
3818	7212	CAUCCGGC U GCUAGCAG	10489	CUGCUAGC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAUG	28864
3821	7209	CCGGCUGC U AGCAGGAG	10490	CUCUCGCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCCGG	28865
3825	7205	CUGCUAGC A GGAGAGCC	10491	GGCUCUCC CUGAUGAG	GCCGUUAGGC	CGAA ICUACGAG	28866
3833	7197	AGGAGAGC C GACACUCC	10492	GGAGUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUCUCCU	28867
3837	7193	GAGCCGAC A CUCCAACA	10493	UGUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCUC	28868
3839	7191	GCCGACAC U CCAACAUC	10494	GAUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCGGC	28869
3841	7189	CGACACUC C AACAUCCA	10495	UCCGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCG	28870
3842	7188	GACACUCC A ACAUCGAC	10496	GUCGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUC	28871
3845	7185	ACUCCAAC A UCGACGAA	10497	UUCGUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGU	28872
3862	7168	GGGGAAGC C UCGCGCGA	10498	UCGCGCGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUCCCC	28873
3863	7167	GGGAAGCC U CGCGCGAG	10499	CUCGCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGTUCCCC	28874
3884	7146	AAUAGUGC A CUUGCCUG	10500	CAGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA ICACUAUU	28875
3886	7144	UAGUGCAC U UGCCUGAA	10501	UUCAGGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGCACUA	28876
3890	7140	GCACUUGC C UGAACGUU	10502	AACGUUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAAGUGC	28877
3891	7139	CACUUGCC U GAACGUUU	10503	AAACGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGCAAGUG	28878
3909	7121	UUGAGGUC A AUGAGGUG	10504	CACCUCAU CUGAUGAG	GCCGUUAGGC	CGAA IACCUCAA	28879
3929	7101	AUGUAAUC U GACGUGAU	10505	AUCACGUC CUGAUGAG	GCCGUUAGGC	CGAA IAUUACAU	28880
3939	7091	ACGUGAUC A AAUGCUUU	10506	AAAGCAUU CUGAUGAG	GCCGUUAGGC	CGAA IAUCACGU	28881
3945	7085	UCAAUUGC U UUAGCAGU	10507	ACUGCUAA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUUGA	28882
3951	7079	GUUUUAGC A GUGGAGUG	10508	CACUCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICUAAGC	28883
3965	7065	GUGAGGAC C GCUGUGU	10509	ACAACAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUCAC	28884
3968	7062	AGGACCGC U GUUGUCAC	10510	GUGACAAC CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCCU	28885
3975	7055	CUGUUGUC A CAGCGUAC	10511	GUACGCG CUGAUGAG	GCCGUUAGGC	CGAA IACAACAG	28886
3977	7053	GUUGUCAC A GCGUACAG	10512	CUGUACGC CUGAUGAG	GCCGUUAGGC	CGAA IAGACAAC	28887
3984	7046	CAGCGUAC A GUGACCAG	10513	CUGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUACGUCG	28888
3990	7040	ACAGUGAC C AGGCUGUU	10514	AACAGCCU CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGU	28889
3991	7039	CAGUGACC A GGCUGUUG	10515	CAACAGCC CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	28890
3995	7035	GACCAGGC U GUUGCCGG	10516	CCGGCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGUC	28891
4001	7029	GCUGUUGC C GGCCUCAA	10517	UUGAGGCC CUGAUGAG	GCCGUUAGGC	CGAA ICAACAGC	28892
4005	7025	UUGCCGGC C UCAAGUCC	10518	GGACUUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCGCAA	28893
4006	7024	UGCCGGCC U CAAGUCCA	10519	UGGACUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCCGGCA	28894
4008	7022	CCGGCCUC A AGUCCAAA	10520	UUUGACU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCGG	28895
4013	7017	CUCAAGUC C AAAAGAAA	10521	UUUCUUUU CUGAUGAG	GCCGUUAGGC	CGAA IACUUGAG	28896
4014	7016	UCAAGUCC A AAAGAAAC	10522	GUUUCUUU CUGAUGAG	GCCGUUAGGC	CGAA IACUUGA	28897
4023	7007	AAAGAAAC U CUCCCAUG	10523	CAUGGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUCUUU	28898
4025	7005	AGAAACUC U CCAUGCU	10524	AGCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAGUUUCU	28899
4027	7003	AAACUCUC C CAUGCUGA	10525	UCAGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUUU	28900
4028	7002	AACUCUCC C AUGCUGAA	10526	UUCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAGUU	28901
4029	7001	ACUCUCCC A UGCUGAAA	10527	UUUCAGCA CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAGU	28902
4033	6997	UCCCAUGC U GAAAUUCU	10528	AGAAUUUC CUGAUGAG	GCCGUUAGGC	CGAA ICAUGGGA	28903
4041	6989	UGAAAUUC U CCUUGACC	10529	GGUCAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUUUCA	28904
4043	6987	AAAUUCUC C UUGACCUC	10530	GAGGUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUUU	28905
4044	6986	AAUUCUCC U UGACCUCA	10531	UGAGGUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAUU	28906
4049	6981	UCCUUGAC C UCAAUUCU	10532	AGAAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGGA	28907
4050	6980	CCUUGACC U CAUUCUUU	10533	AAGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCAAGG	28908
4052	6978	UUGACCUC A AUUCUUUG	10534	CAAAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAA	28909
4057	6973	CUCAAUUC U UUGCCCAA	10535	UUGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGAG	28910
4062	6968	UUCUUUGC C CAAACAAA	10536	UUUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGAA	28911
4063	6967	UCUUUGCC C AAACAAAC	10537	GUUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAGA	28912
4064	6966	CUUUUGCC A AACAAACU	10538	AGUUUUUU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAAG	28913
4068	6962	GCCCAAAC A AACUGCUU	10539	AAGCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGGC	28914
4072	6958	AAACAAAC U GCUUAUGU	10540	ACAUAAAG CUGAUGAG	GCCGUUAGGC	CGAA IUUUGUUU	28915
4075	6955	CAAACUGC U UAUGUCAC	10541	GUGACAUU CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUUG	28916
4082	6948	CUUAUGUC A CUCUUGGU	10542	ACCAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IACAUUAG	28917
4084	6946	UAUGUCAC U CUUGGUCU	10543	AGACCAAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACAUU	28918

4086	6944	UGUCACUC U UGGUCUUA	10544	UAAGACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGACA	28919
4092	6938	UCUUGGUC U UAUUCUAGC	10545	GCUAGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAAGA	28920
4097	6933	GUCUUUUC U AGCCAACC	10546	GGUUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAAAGAC	28921
4101	6929	UAUCUAGC C AACCCAUC	10547	GAUGGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAGUA	28922
4102	6928	AUCUAGCC A ACCCAUCU	10548	AGAUGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGAGU	28923
4105	6925	UAGCCAAC C CAUCUCGU	10549	ACGAGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGCUA	28924
4106	6924	AGCCAACC C AUCUCGUU	10550	AACGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGGCU	28925
4107	6923	GCCAACCC A UCUCGUUG	10551	CAACGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUUGGC	28926
4110	6920	AACCCAUC U CGUUGGCU	10552	AGCCAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGGUU	28927
4118	6912	UCGUUGGC U GCCACUGC	10553	CGAUGGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAACGA	28928
4121	6909	UUGGUCGC C ACUGCGCU	10554	AGCGCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCCAA	28929
4122	6908	UGGUCGCC A CUGCGCUC	10555	GAGCGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGCCA	28930
4124	6906	GCUGCCAC U GCGCUCAC	10556	GUGAGCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCAGC	28931
4129	6901	CACUGCGC U CACAAGGG	10557	CCCUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCAGUG	28932
4131	6899	CUGCGCUC A CAAGGGUC	10558	GACCCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCGCAG	28933
4133	6897	GCGCUCAC A AGGGUCAU	10559	AUGACCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAGCGC	28934
4140	6890	CAAGGGUC A UGACACAA	10560	UUGUGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCCUUG	28935
4145	6885	GUCAUGAC A CAAAUACG	10561	CUGAUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUGAC	28936
4147	6883	CAUGACAC A AAUCAGGA	10562	UCCUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUAGUG	28937
4152	6878	CACAAAU C A GGAACACG	10563	CGUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUUGUG	28938
4158	6872	UCAGGAAC A CGGCUAGC	10564	GCUAGCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCUGA	28939
4163	6867	AACACGGC U AGCUGGUU	10565	AACCAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGUGUU	28940
4167	6863	CGGCUAGC U GGUUGUCU	10566	AGACAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGCCG	28941
4175	6855	UGGUUGUC U GUCUGCGA	10567	UCGCAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAACCA	28942
4179	6851	UGUCUGUC U GCGAACGU	10568	ACGUUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGACA	28943
4191	6839	AACGUUGC U UCUCUGGC	10569	GCCAGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACGUU	28944
4194	6836	GUUGCUUC U CUGGCUCA	10570	UGAGCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGCAAC	28945
4196	6834	UGCUUCUC U GGCUCAGG	10571	CCUGAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAGCA	28946
4200	6830	UCUCUGGC U CAGGAUUA	10572	AAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAGAGA	28947
4202	6828	UCUGGCUC A GGAUUUAG	10573	CUAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCAGA	28948
4212	6818	GAAUUAGC A CAAUCAUC	10574	GAUGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAUUUC	28949
4214	6816	AUUAGCAC A AUCAUCAA	10575	UUGAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUAAU	28950
4218	6812	GCACAAUC A UCAAGAGA	10576	UCUCUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGUGC	28951
4221	6809	CAAUCAUC A AGAGAAGG	10577	CCUUCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGAUUG	28952
4236	6794	GGGAGAGC A GCAACAUU	10578	AAUGUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUCCC	28953
4239	6791	AGAGCAGC A ACAUCCG	10579	CGGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGUCU	28954
4242	6788	GACGCAAC A UUCGCGC	10580	CGCCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGCUGC	28955
4246	6784	CAACAUUC C GGCGAUCU	10581	AGAUCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGUUG	28956
4254	6776	CGGCGAUC U UCGUUCU	10582	AGGAACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCGCG	28957
4261	6769	CUUCGUUC C UGGAACUU	10583	AAGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACGAAG	28958
4262	6768	UUCGUUC C UGGAACUU	10584	GAAGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACGAA	28959
4268	6762	CCUGGAAC U UCAGCCAU	10585	AUGGCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCAGG	28960
4271	6759	GGAACUUC A GCCAUCCA	10586	UGGAUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUUC	28961
4274	6756	ACUUCAGC C AUCCAACA	10587	UGUUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGAAGU	28962
4275	6755	CUUCAGCC A UCCAACAG	10588	GUGUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUGAAG	28963
4278	6752	CAGCCAUC C AACAGAAA	10589	UUUCUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGCUG	28964
4279	6751	AGCCAUC C AACAGAAA	10590	UUUCUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGGCU	28965
4282	6748	CAUCCAAC A GAAAAGG	10591	CCUUUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAUG	28966
4298	6732	GUCGCGAC U CCAAGAC	10592	GUCUUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGCGAC	28967
4300	6730	CGCGACUC C CAAGACAG	10593	CUGUCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCGCG	28968
4301	6729	GCGACUCC C AAGACAGC	10594	GCUGUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUCGC	28969
4302	6728	CGACUCCC A AGACAGCG	10595	CGCUGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGUCG	28970
4307	6723	CCCAAGAC A GCGCCUCC	10596	GGAGGCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUUGGG	28971
4312	6718	GACAGCGC C UCCCAAAC	10597	GUUUGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCUGUC	28972
4313	6717	ACAGCGCC U CCAAACC	10598	GUUUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCUGU	28973
4315	6715	AGCGCCUC C CAAACCUA	10599	UAGGUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGCGCU	28974
4316	6714	GCGCCUCC C AAACCUAU	10600	AUAGGUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGGCGC	28975
4317	6713	CGCCUCCC A AACCUAUC	10601	GAUAGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGGCG	28976
4321	6709	UCCCAAAC C UAUCUUUC	10602	GAAAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUGGGA	28977
4322	6708	CCCAAACC U AUCUUUCC	10603	GGAAAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUGGG	28978
4326	6704	AACCUAUC U UUCCAAUG	10604	CAUUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGGUU	28979

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4330	6700	UAUCUUUC C AAUGCCCU	10605	AGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAU	28980
4331	6699	AUCUUUCC A AUGCCCU	10606	AAGGGCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGAU	28981
4336	6694	UCCAUGC C CUUCCGCU	10607	AGCGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUGGA	28982
4337	6693	CCAAUGCC C UUCCGCU	10608	CAGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUUGG	28983
4338	6692	CAAUGCCC U UCCGCU	10609	GCAGCGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAUUG	28984
4341	6689	UGCCCUUC C GCUGCAUG	10610	CAUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGGCA	28985
4344	6686	CCUCCGC U GCAUGAGG	10611	CCUCAUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGAAGG	28986
4347	6683	UCCGCUGC A UGAGGAGG	10612	CCUCCUCA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCGGA	28987
4364	6666	AAGAAUAC U CCAUGGU	10613	ACCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA	IUAUUCU	28988
4366	6664	GAAUACUC C CAUGGUCA	10614	UGACCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGUAUUC	28989
4367	6663	AAUACUCC C AUGGUCAU	10615	AUGACCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUAU	28990
4368	6662	AUACUCC A UGUCAUC	10616	GAUGACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGUAU	28991
4374	6656	CAUGGUC A UCACACUC	10617	GAGUGUGA CUGAUGAG	GCCGUUAGGC	CGAA	IACCAUGG	28992
4377	6653	UGGUCAUC A CACUCAAU	10618	AUUGAGUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGUACCA	28993
4379	6651	GUCAUCAC A CUCAAUA	10619	UUAUUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAUGAC	28994
4381	6649	CAUCACAC U CAAUAAGG	10620	CCUUAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGAUG	28995
4383	6647	UCACACUC A AUAAGGCA	10621	UGCCUUAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGUGA	28996
4391	6639	AAUAAGGC A AUCAAGGC	10622	GCCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUAU	28997
4395	6635	AGGCAAUC A AGGCAAU	10623	AAUUGCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGCCU	28998
4400	6630	AUCAAGGC A AUUGUCUG	10624	CAGACAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUGAU	28999
4407	6623	CAAUUGUC U GAAGAGCA	10625	UGCUCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IACAAUUG	29000
4415	6615	UGAAGAGC A UCUGGCAG	10626	GCCGACAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUUA	29001
4418	6612	AGAGCAUC U GGCAGUUC	10627	GAACUGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGUCUCU	29002
4422	6608	CAUCUGGC A GUUCCUCC	10628	GGAGGAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCAGAUG	29003
4427	6603	GGCAGUUC C UCCAGGGC	10629	GCCUGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAACUGCC	29004
4428	6602	GCAGUUC U CCAGGGCC	10630	GGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUGC	29005
4430	6600	AGUUCUC C AGGCCAU	10631	AUGGCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAACU	29006
4431	6599	GUUCCUCC A GGGCCAU	10632	AAUGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAAC	29007
4436	6594	UCCAGGC C AUUCUGUG	10633	CACAGAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUGGA	29008
4437	6593	CCAGGGC A UUCUGUGA	10634	UCACAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUGG	29009
4441	6589	GGCAUUC U GUGAGCUC	10635	GAGCUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGGCC	29010
4448	6582	CUGUGAGC U CUUCCUCC	10636	GGAGGAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUCACAG	29011
4450	6580	GUGAGCUC U UCCUCCU	10637	AAGGAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUCAC	29012
4453	6577	AGCUCUUC C UCCUUUCU	10638	AGAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGCU	29013
4454	6576	GCUCUUC U CCUUCUC	10639	GAGAAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGAGC	29014
4456	6574	UCUUCUC C UUCUCUG	10640	CAGAGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAAGA	29015
4457	6573	CUUCCUCC U UUCUCUGC	10641	GCAGAGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAAG	29016
4461	6569	CUCCUUC U CUGCAGUG	10642	CACUGCAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGGAG	29017
4463	6567	CCUUCUC U GCAGUGGC	10643	GCCACUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAAGG	29018
4466	6564	UUCUCUGC A GUGCCAC	10644	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAGAA	29019
4472	6558	GCAGUGGC C ACAACGUA	10645	UACGUUGU CUGAUGAG	GCCGUUAGGC	CGAA	ICCACUGC	29020
4473	6557	CAGUGGCC A CAACGUAC	10646	GUACGUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACUG	29021
4475	6555	GUGGCCAC A ACGUACAU	10647	AUGUACGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGCCAC	29022
4482	6548	CAACGUAC A UGUGUCA	10648	UGACACCA CUGAUGAG	GCCGUUAGGC	CGAA	IUACGUUG	29023
4490	6540	AUGGUGUC A AGUGCUUC	10649	GAAGCACU CUGAUGAG	GCCGUUAGGC	CGAA	IACACAU	29024
4496	6534	UCAAGUGC U UCCCAUGU	10650	ACAUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	ICACUUGA	29025
4499	6531	AGUGCUUC C CAUGUCU	10651	AAGACAUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGCACU	29026
4500	6530	GUGCUUC C AUGUCUUC	10652	GAAGACAU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGCAC	29027
4501	6529	UGCUUCC A UGUCUUC	10653	GGAGACA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGCA	29028
4506	6524	CCAUGUC U UCCCCAUG	10654	CAUGGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IACAUGGG	29029
4509	6521	AUGUCUUC C CCAUGAAG	10655	CUUCAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGACAU	29030
4510	6520	UGUCUUC C CAUGAAGU	10656	ACUUAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGACA	29031
4511	6519	GUCUUC C AUGAAGUG	10657	CACUUAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGAC	29032
4512	6518	UCUUC C A UGAAGUGC	10658	GCACUUA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGA	29033
4521	6509	UGAAGUGC U CAGGCAUC	10659	GAGCCUG CUGAUGAG	GCCGUUAGGC	CGAA	ICACUUA	29034
4523	6507	AAGUGCUC A GGCACU	10660	AAGAUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGCACU	29035
4527	6503	GCUCAGGC A UCUUCC	10661	GGGAAAGA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAGC	29036
4530	6500	CAGGCAUC U UUCCAGA	10662	UCUGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGCCUG	29037
4534	6496	CAUCUUC C CAGAACCU	10663	AGGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAU	29038
4535	6495	AUCUUC C AGAACUC	10664	GAGGUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGAU	29039
4536	6494	UCUUC C GAACUCA	10665	UGAGGUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAGA	29040

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4541	6489	CCCAGAAC C UCAAUGAG	10666	CUCAUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGGG	29041
4542	6488	CCAGAACC U CAAUGAGC	10667	GCUCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUCUGG	29042
4544	6486	AGAACCUC A AUGAGCCC	10668	GGGCUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUCU	29043
4551	6479	CAAUGAGC C CUAUCUGA	10669	UCAGAUAG CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUUG	29044
4552	6478	AAUGAGCC C UAUCUGAG	10670	CUCAGAU A CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAU	29045
4553	6477	AUGAGCCC U AUCUGAGA	10671	UCUCAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGCUCAU	29046
4557	6473	GCCCUAUC U GAGAACGU	10672	ACGUUCUC CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGGC	29047
4570	6460	ACGUUUUC C CGAGGCGA	10673	UCGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAACGU	29048
4571	6459	CGUUUUCC C GAGGCGAA	10674	UUCGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAAACG	29049
4583	6447	GCGAAGUC C UUGAACGC	10675	GCGUUCAA CUGAUGAG	GCCGUUAGGC	CGAA IACUUCGC	29050
4584	6446	CGAAGUCC U UGAACGCC	10676	GGCGUUCA CUGAUGAG	GCCGUUAGGC	CGAA IGACUUCG	29051
4592	6438	UUGAACGC C UTUAGUGC	10677	GCACTAAA CUGAUGAG	GCCGUUAGGC	CGAA ICGUUCAA	29052
4593	6437	UGAACGCC U UTUAGUGC	10678	GGCACUAA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUUCA	29053
4601	6429	UUUAGUGC C UGUGAUC	10679	GAUCACCA CUGAUGAG	GCCGUUAGGC	CGAA ICACUAAA	29054
4602	6428	UUAGUGCC U GGUGAUCC	10680	GGAUCACC CUGAUGAG	GCCGUUAGGC	CGAA IGACUAA	29055
4610	6420	UGGUGAUC C GAGUACAC	10681	GUGUACUC CUGAUGAG	GCCGUUAGGC	CGAA IAUACCA	29056
4617	6413	CCGAGUAC A CCCUGGCG	10682	CGCCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IUACUCGG	29057
4619	6411	GAGUACAC C CUGGCGUC	10683	GACGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGUACUC	29058
4620	6410	AGUACACC C UGGCGUCA	10684	UGACGCCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUAUCU	29059
4621	6409	GUACACCC U GGCUGCAA	10685	UUGACGCC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUAC	29060
4628	6402	CUGGCGUC A AUCCAGCG	10686	CGCUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACGCCAG	29061
4632	6398	CGUCAUUC C AGCGCGGC	10687	GCCGCGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACG	29062
4633	6397	GUCAAUCC A GCGCGGCC	10688	GGCPCGCG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGAC	29063
4641	6389	AGCGCGGC C UCAGAAUC	10689	GAUUCUGA CUGAUGAG	GCCGUUAGGC	CGAA ICCGCGCU	29064
4642	6388	GCGCGGCC U CAGAAUCU	10690	AGAUCUCG CUGAUGAG	GCCGUUAGGC	CGAA IGCCGCGC	29065
4644	6386	GCGGCCUC A GAAUCUUC	10691	GAAGAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCGC	29066
4650	6380	UCAGAAUC U UCCUUUCA	10692	UGAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGA	29067
4653	6377	GAAUCUUC C UUUACCA	10693	UGUGUAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUUC	29068
4654	6376	AAUCUUC C UUCACCAA	10694	UUGGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAUU	29069
4658	6372	UUCUUUC A CCAAGCUU	10695	AAGCUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGAA	29070
4660	6370	CCUUUCAC C AAGCUUCG	10696	CGAAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAGG	29071
4661	6369	CUUUCACC A AGCUUCGU	10697	ACGAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAAG	29072
4665	6365	CACCAAGC U UCGUGAUG	10698	CAUCACGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGUG	29073
4676	6354	GUGAUGAC U UCCACUUC	10699	GAAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAUCAC	29074
4679	6351	AUGACUUC C ACUUCGUU	10700	AACGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGUCAU	29075
4680	6350	UGACUUC A CUUCGUUG	10701	CAACGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCA	29076
4682	6348	ACUUCAC A UCGUGUUG	10702	AACAACGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAAGU	29077
4694	6336	UUGUUGUC U UCUAAAUA	10703	AUUUUAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAACAA	29078
4697	6333	UUGUCUUC U AAAUUGU	10704	ACAAUUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAA	29079
4713	6317	UGUUUGUC C UAGGACCA	10705	UGGUCCUA CUGAUGAG	GCCGUUAGGC	CGAA IACAACA	29080
4714	6316	GUUUGUCC U AGGACCAU	10706	AUGGUCCU CUGAUGAG	GCCGUUAGGC	CGAA IGACAAAC	29081
4720	6310	CUUAGGAC C AUCAAAGC	10707	GCUUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCCUAGG	29082
4721	6309	CUAGGACC A UCAAAGCA	10708	UGC UUUA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCUAG	29083
4724	6306	GGACCAUC A AAGCACCA	10709	UGUGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGUCC	29084
4729	6301	AUCAAAAGC A CCACCUCC	10710	GGAGGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAU	29085
4731	6299	CAAAGCAC C ACCUCCGG	10711	CCGAGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCUUUG	29086
4732	6298	AAAGCACC A CCUCCGGU	10712	ACCGGAGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGCUU	29087
4734	6296	AGCACCAC C UCCGGUCG	10713	CGACCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGUGCU	29088
4735	6295	GCACCACC U CCGUCGU	10714	ACGACCGG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGUGC	29089
4737	6293	ACCACCUC C GGUCGUGG	10715	CCACGACC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUGGU	29090
4752	6278	GGUAGUAC A CUCCAGCC	10716	GGCUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUACC	29091
4754	6276	UAUGACAC U CCAGCCGC	10717	GCGGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAUA	29092
4756	6274	UGACACUC C AGCCGUG	10718	GCGGCGCU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUCA	29093
4757	6273	GACACUCC A GCCGUGC	10719	GCAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUC	29094
4760	6270	ACUCCAGC C GCUGCAAC	10720	GUUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAGU	29095
4763	6267	CCAGCCGC U GCAACCUU	10721	AAGGUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGUGG	29096
4766	6264	GCCGCGUC A ACCUUGUA	10722	UACAAGGU CUGAUGAG	GCCGUUAGGC	CGAA ICAGCGGC	29097
4769	6261	GCUGCAAC C UUGUAAGC	10723	GCUUACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUGCAGC	29098
4770	6260	CUGCAACC U UGUAAAGC	10724	GGCUUACA CUGAUGAG	GCCGUUAGGC	CGAA IGUUGCAG	29099
4778	6252	UUGUAAGC C AGCCAAAC	10725	GUUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA ICUUACAA	29100
4779	6251	UGUAAGCC A GCCAAACU	10726	AGUUUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGCUUACA	29101

4782	6248	AAGCCAGC C AAACUGGC	10727	GCCAGUUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGCUU	29102
4783	6247	AGCCAGCC A AACUGGCA	10728	UGCCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGCU	29103
4787	6243	AGCCAAAC U GGCAGAU	10729	GAUCUGCC CUGAUGAG	GCCGUUAGGC	CGAA IUUUGGCU	29104
4791	6239	AAACUGGC A GAUCUGCA	10730	UGCAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUUU	29105
4796	6234	GGCAGAU C GCAGUCCU	10731	AGGACUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUCUGCC	29106
4799	6231	AGAUCUGC A GUCCUCAA	10732	UUGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGAU CU	29107
4803	6227	CUGCAGUC C UCAACAGU	10733	ACUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGCAG	29108
4804	6226	UGCAGUCC U CAACAGUU	10734	AACUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGCA	29109
4806	6224	CAGUCCUC A ACAGUCC	10735	GGAACUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	29110
4809	6221	UCCUCAAC A GUCCAGA	10736	UCUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGGA	29111
4814	6216	AACAGUUC C AGAAAGUU	10737	AACUUUCU CUGAUGAG	GCCGUUAGGC	CGAA IAACUGUU	29112
4815	6215	ACAGUCC A GAAAGUUU	10738	AAACUUUC CUGAUGAG	GCCGUUAGGC	CGAA IGAACUGU	29113
4828	6202	GUUUUUU CUCUUCUC	10739	GAGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAAC	29114
4830	6200	UUUUUUC U CUUCUCCU	10740	AGGAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAAA	29115
4832	6198	UUUCUCUC U UCUCUCU	10741	AGAGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAAA	29116
4835	6195	CUCUCUUC U CCUCUGAG	10742	CUCAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGAG	29117
4837	6193	CUCUCUC C UCUGAGCC	10743	GGCUCAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGAG	29118
4838	6192	UCUUCUC U CUGAGCCG	10744	CGGCUCAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAGA	29119
4840	6190	UUCUCCUC U GAGCCGGU	10745	ACCGGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAA	29120
4845	6185	CUCUGAG C GGAUUC	10746	GGAAUACC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGAG	29121
4853	6177	CGUAUUC C CCAUCCA	10747	AUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAAUACCG	29122
4854	6176	GGUAUUC C CAUCCAUG	10748	CAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUAAC	29123
4855	6175	GUUAUUC C AUCCAUGG	10749	CCAUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUAC	29124
4856	6174	UAUUCUCC A UCCAUGGU	10750	ACCAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGAUA	29125
4859	6171	UCCCAUC C AUGGUUA	10751	UAUACCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGGGA	29126
4860	6170	CCCCAUC A UGGUUAU	10752	AUAUACCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGGG	29127
4871	6159	GUUAUAC C UUCUCACG	10753	CGUGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUAC	29128
4872	6158	UAUAUAC C UCUCACGC	10754	GCGUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGUUAUA	29129
4875	6155	AUACCUUC U CACGUCU	10755	AGAGCGUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGUUAU	29130
4877	6153	ACCUCUC A CGCUCUGG	10756	CCAGAGCG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGGU	29131
4881	6149	UCUCACGC U CUGGUUGG	10757	CCAACCAG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAGA	29132
4883	6147	UCACGCUC U GGUUGGUA	10758	UACCAACC CUGAUGAG	GCCGUUAGGC	CGAA IAGCGUGA	29133
4905	6125	GAGCGAUC A GUCCGUUU	10759	AAACGGAC CUGAUGAG	GCCGUUAGGC	CGAA IAUCGCUC	29134
4909	6121	GAUCAGUC C GUUUGGCA	10760	UGCCAAAC CUGAUGAG	GCCGUUAGGC	CGAA IACUGAUC	29135
4917	6113	CGUUUGG A UGUUGAUG	10761	CAUCAACA CUGAUGAG	GCCGUUAGGC	CGAA ICCAAACG	29136
4931	6099	AUGUUGUC C AGCAUGAU	10762	AUCAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IACAACAU	29137
4932	6098	UGUUGUCC A GCAUGAU	10763	AAUAUGC CUGAUGAG	GCCGUUAGGC	CGAA IGACAACA	29138
4935	6095	UGUCCAGC A UGAUUCGU	10764	ACGAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUGACA	29139
4946	6084	AUUCGUG C UCAGUCCA	10765	UGGACUGA CUGAUGAG	GCCGUUAGGC	CGAA ICACGAU	29140
4947	6083	UUCGUGCC U CAGUCCAA	10766	UUGGACUG CUGAUGAG	GCCGUUAGGC	CGAA IGCACGAA	29141
4949	6081	CGUGCCUC A GUCCAAUG	10767	CAUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IAGGCACG	29142
4953	6077	CCUCAGUC C AAUGGGCG	10768	CGCCCAU CUGAUGAG	GCCGUUAGGC	CGAA IACUGAGG	29143
4954	6076	CUCAGUCC A AUGGGCGA	10769	UCGCCAU CUGAUGAG	GCCGUUAGGC	CGAA IGACUGAG	29144
4976	6054	GAGUCGUC U UCAUUCGU	10770	ACGAAUGA CUGAUGAG	GCCGUUAGGC	CGAA IACGACUC	29145
4979	6051	UCGUUCU A UUCGUGUG	10771	CACACGAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGACGA	29146
4989	6041	UCGUGUG C CCCAUAA	10772	UUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA ICACACGA	29147
4990	6040	CGUGUGCC C CCCAUAA	10773	GUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA IGCACAG	29148
4991	6039	GUGUGCCC C CCAUAACA	10774	UGUUAUGG CUGAUGAG	GCCGUUAGGC	CGAA IGGCACAC	29149
4992	6038	UGUGCCCC C CAUAACAG	10775	CUGUUAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGGCACA	29150
4993	6037	GUGCCCC C AUAACAGU	10776	ACUGUUAU CUGAUGAG	GCCGUUAGGC	CGAA IGGGGCAC	29151
4994	6036	UGCCCCC A UAACAGUA	10777	UACUGUUA CUGAUGAG	GCCGUUAGGC	CGAA IGGGGGCA	29152
4999	6031	CCCAUAAC A GUACUCAU	10778	AUGAGUAC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUGGG	29153
5004	6026	AACAGUAC U CAUCACCA	10779	UGGUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUACUGUU	29154
5006	6024	CAGUACUC A UCACCAAC	10780	GUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IAGUACUG	29155
5009	6021	UACUCAUC A CCAACUUG	10781	CAAGUUGG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUA	29156
5011	6019	CUCAUCAC C AACUUGCG	10782	CGCAAGUU CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGAG	29157
5012	6018	UCAUCACC A ACUUGCGA	10783	UCGCAAGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAUGA	29158
5015	6015	UCACCAAC U UGCGACGG	10784	CCGUCGCA CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGA	29159
5029	6001	CGGAUUUC U ACCGAUAC	10785	GUUUCGUG CUGAUGAG	GCCGUUAGGC	CGAA IAAAUCCG	29160
5032	5998	AUUUCUAC C GAUACGUC	10786	GACGUUAC CUGAUGAG	GCCGUUAGGC	CGAA IUAGAAAU	29161
5041	5989	GAUACGUC C ACGUCUCU	10787	AGAGACGU CUGAUGAG	GCCGUUAGGC	CGAA IACGUUAC	29162

5042	5988	AUACGUCC A CGUCUCUG	10788	CAGAGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACGUAU	29163
5047	5983	UCCACGUC U CUGGGCGG	10789	CCGCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGGGA	29164
5049	5981	CACGUCUC U GGGCGGCA	10790	UGCCGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACGUG	29165
5057	5973	UGGGCGGC A CUAGCUGC	10791	GCAGCUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGCCCA	29166
5059	5971	GGCGGCAC U AGCUGCUG	10792	CAGCAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCCGCC	29167
5063	5967	GCACUAGC U GCUGUCAC	10793	GUGACAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAGUGC	29168
5066	5964	CUAGCUGC U GUCACUGC	10794	GCAGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCUAG	29169
5070	5960	CUGCUGUC A CUGCAGAU	10795	AUCUGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGCAG	29170
5072	5958	GCUGUCAC U GCAGAUGG	10796	CCAUCUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACAGC	29171
5075	5955	GUCACUGC A GAUGGUUC	10797	GAACCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUGAC	29172
5084	5946	GAUGGUUC U CCCAGGAU	10798	AUCCUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCAUC	29173
5086	5944	UGGUUCUC C CAGGAUCA	10799	UGAUCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAACCA	29174
5087	5943	GGUUCUCC C AGGAUCAC	10800	GUGAUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAACC	29175
5088	5942	GUUCUCCC A GGAUCACU	10801	AGUGAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGAAC	29176
5094	5936	CCAGGAUC A CUCUCCCU	10802	AGGGAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCCUGG	29177
5096	5934	AGGAUCAC U CUCCCUUC	10803	GAAGGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUCCU	29178
5098	5932	GAUCACUC U CCCUUCUC	10804	GAGAAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGAUC	29179
5100	5930	UCACUCUC C CUUCUCCU	10805	AGGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGUGA	29180
5101	5929	CACUCUCC C UUCUCCUU	10806	AAGGAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUGUG	29181
5102	5928	ACUCUCCC U UCUCUUC	10807	GAAGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGAGU	29182
5105	5925	CUCCCUUC U CCUUCUGU	10808	ACAGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGGAG	29183
5107	5923	CCCUUCUC C UUCUGUUA	10809	UAACAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAGGG	29184
5108	5922	CCUUCUCC U UCUGUUAU	10810	AUAACAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAAGG	29185
5111	5919	UCUCUUC U GUUAUGAU	10811	AUCAUAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGAGA	29186
5130	5900	UUGGUUUC A CACUCUUC	10812	GAAGAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACCAA	29187
5132	5898	GGUUUCAC A CUCUCCG	10813	CGGAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAAACC	29188
5134	5896	UUUCACAC U CUUCCGGC	10814	GCCGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGAAA	29189
5136	5894	UCACACUC U UCCGGCUG	10815	CAGCCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUGA	29190
5139	5891	CACUCUUC C GGCUGUCA	10816	UGACAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAGUG	29191
5143	5887	CUUCCGGC U GUCAAUCA	10817	UGAUUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGGAAG	29192
5147	5883	CGGCUGUC A AUCACCCU	10818	AGGGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGCCG	29193
5151	5879	UGUCAAUC A CCUGCUC	10819	GAGCAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGACA	29194
5153	5877	UCAUACAC C CUGCUCGC	10820	GCAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUUGA	29195
5154	5876	CAAUCACC C UGCUCGCC	10821	GGCGAGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGAUUG	29196
5155	5875	AAUCACCC U GCUCGCCU	10822	AGGCGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGAUU	29197
5158	5872	CACCCUGC U CGCCUUGA	10823	UCAAAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGGGUG	29198
5162	5868	CUGCUCGC C UUGAAGUU	10824	AACUUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGCAG	29199
5163	5867	UGCUCGCC U UGAAGUUA	10825	UAACUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGCA	29200
5174	5856	AAGUUAGC C CCCAUUUC	10826	GAAAUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAACUU	29201
5175	5855	AGUUAGCC C CCAUUUCA	10827	UGAAUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUAACU	29202
5176	5854	GUUAGCCC C CAUUUCAG	10828	CUGAAAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUAAC	29203
5177	5853	UUAGCCCC C AUUUCAGA	10829	UCUGAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCUAA	29204
5178	5852	UAGCCCCC A UUUCAGAU	10830	AUCUGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGGCUA	29205
5183	5847	CCCAUUUC A GAUAUGUC	10831	GACAUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAUGGG	29206
5192	5838	GAUAUGUC U GUUGUGAU	10832	AUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAUUUC	29207
5204	5826	GUGAUAA C AAGUCCCA	10833	UGGGACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUAUCAC	29208
5210	5820	ACAAAGUC C CAAUCAUC	10834	GAUGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUUGU	29209
5211	5819	CAAAGUCC C AAUCAUCG	10835	CGAUGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACUUUG	29210
5212	5818	AAAGUCCC A AUCAUCGU	10836	ACGAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACUUU	29211
5216	5814	UCCCAAUC A UCGUUCUU	10837	AAGAACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGGA	29212
5223	5807	CAUCGUUC U UACAUUUU	10838	AAAAUGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACGAUG	29213
5227	5803	GUUCUUC A UUUUGGGU	10839	ACCCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGAAG	29214
5238	5792	UUGGGUAC U CCGUCUCG	10840	CGAGACGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACCCAA	29215
5240	5790	GGGUACUC C GUCUCGUA	10841	UACGAGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUACCC	29216
5244	5786	ACUCCGUC U CGUACGAC	10842	GUCGUACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGGAGU	29217
5253	5777	CGUACGAC U UUCUGUUC	10843	GAACAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGUACG	29218
5257	5773	CGACUUUC U GUUCAAUU	10844	AAUUGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGUCG	29219
5262	5768	UUCUGUUC A AUUGGACU	10845	AGUCCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAGAA	29220
5270	5760	AAUUGGAC U ACUUUCUU	10846	AAGAAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAAUU	29221
5273	5757	UGGACUAC U UUCUUUCC	10847	GGAAAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGUCCA	29222
5277	5753	CUACUUUC U UUCAGCA	10848	UGCUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGUAG	29223

Table IX

5281	5749	UUUCUUUC C AGCACGUU	10849	AACGUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGAAA	29224
5282	5748	UUCUUUCC A GCACGUUG	10850	CAACGUGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAGAA	29225
5285	5745	UUUCCAGC A CGUUGUAG	10851	CUACAACG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGAAA	29226
5296	5734	UUGUAGGC A AAGGGCAA	10852	UUGCCCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICCUACAA	29227
5303	5727	CAAAGGGC A AUCUCAUU	10853	AAUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA	ICCCUUUG	29228
5307	5723	GGGCAAUC U CAUUCCCC	10854	GGGGAAUG CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGCCC	29229
5309	5721	GCAAUCUC A UUCCCAU	10855	AUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUGGC	29230
5313	5717	UCUCAUUC C CCAUCUUG	10856	CAAGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGAGA	29231
5314	5716	CUCAUUC C CAUCUUGA	10857	UCAAGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGAAUGAG	29232
5315	5715	UCAUUC C AUCUUGAC	10858	GUCAAGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGGAAUGA	29233
5316	5714	CAUUC C AUCUUGACA	10859	UGUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGGGAAUG	29234
5319	5711	UCCCAUC U UGACACUA	10860	UGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGGGGA	29235
5324	5706	AUCUUGAC A CUAGGCAC	10861	UGCCCUAG CUGAUGAG	GCCGUUAGGC	CGAA	IUCAAGAU	29236
5326	5704	CUUGACAC U AGGCACAA	10862	UUGUGCCU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCAAG	29237
5331	5699	CACUAGGC A CAAACCAA	10863	UUGGUUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICCUAGUG	29238
5333	5697	CUAGGCAC A AACCAAAC	10864	GUUUGGUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGCCUAG	29239
5337	5693	GCACAAAC C AAACCGUC	10865	GACGGUUU CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGUGC	29240
5338	5692	CACAAACC A AACCGUCU	10866	AGACGGUU CUGAUGAG	GCCGUUAGGC	CGAA	IGUUUGUG	29241
5342	5688	AACCAAAC C GUCUUC C	10867	GGGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA	IUUUGGUU	29242
5346	5684	AAACCGUC U UCCCGGUG	10868	CACCGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IACGGUUU	29243
5349	5681	CGUCUC C CGUGUAU	10869	AUACACCG CUGAUGAG	GCCGUUAGGC	CGAA	IAAGACGG	29244
5350	5680	CGUCUUC C GGUGUAU	10870	AAUACACC CUGAUGAG	GCCGUUAGGC	CGAA	IGAAGACG	29245
5360	5670	GUGUAUUC U GUGAUCCA	10871	UGGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUACAC	29246
5367	5663	CUGUGAUC C AUUCGUAU	10872	AUACGAAU CUGAUGAG	GCCGUUAGGC	CGAA	IAUCACAG	29247
5368	5662	UGUGAUC A UUCGUAUC	10873	GAUACGAA CUGAUGAG	GCCGUUAGGC	CGAA	IGAUCACA	29248
5377	5653	UUCGUAUC C AGAGUUC	10874	GGAAUCUC CUGAUGAG	GCCGUUAGGC	CGAA	IAUACGAA	29249
5378	5652	UCGUAUCC A GAGUCCA	10875	UGAAACUC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUAACG	29250
5385	5645	CAGAGUUC C AAGCUCGA	10876	UCGAGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IAACUCUG	29251
5386	5644	AGAGUUC A AGCUCGAU	10877	AUCGAGCU CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUCU	29252
5390	5640	UCCAAGC U CGAUCCGG	10878	CCGGAUCG CUGAUGAG	GCCGUUAGGC	CGAA	ICUUGGAA	29253
5396	5634	GCUCGAUC C GGGAUCUC	10879	GAGAUC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCGAGC	29254
5403	5627	CCGGGAUC U CAGUCUGU	10880	ACAGACUG CUGAUGAG	GCCGUUAGGC	CGAA	IAUCCCGG	29255
5405	5625	GGGAUCUC A GUCUGUAA	10881	UUACAGAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUC C	29256
5409	5621	UCUCAGUC U GUAAGUCG	10882	CGACUUA CUGAUGAG	GCCGUUAGGC	CGAA	IACUGAGA	29257
5436	5594	AAUUGGAC U CUGGGAAU	10883	AUUC CAG CUGAUGAG	GCCGUUAGGC	CGAA	IUCCAAU	29258
5438	5592	UUGGACUC U GGGAAUGG	10884	CCAUUC CUGAUGAG	GCCGUUAGGC	CGAA	IAGUCCAA	29259
5450	5580	AAUGGAUC U GAAGUGCC	10885	GGCACUUC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCCA U	29260
5458	5572	UGAAGUGC C UGGUGGGG	10886	CCCCACCA CUGAUGAG	GCCGUUAGGC	CGAA	ICACUUA	29261
5459	5571	GAAGUGCC U GGUGGGGU	10887	ACCCACCC CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGG C	29262
5471	5559	GGGUGGC U GUCAUGAA	10888	UUCAUGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCA C C	29263
5475	5555	UGGUGUC A UGAAUAU	10889	AAUAUUA CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCCA	29264
5486	5544	AAUAUUGC C GCCGCCUC	10890	GAGGCGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUAU	29265
5489	5541	AUUGCCGC C GCCUCCC	10891	GGGAGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGCAAU	29266
5492	5538	GCCGCCGC C UCCCCUAG	10892	CUAGGGGA CUGAUGAG	GCCGUUAGGC	CGAA	ICGGCGGC	29267
5493	5537	CCGCCGCC U CCCCUAGC	10893	GCUAGGGG CUGAUGAG	GCCGUUAGGC	CGAA	IGCGCGG	29268
5495	5535	GCCGCCUC C CCUAGCUC	10894	GAGCUAGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGCGGC	29269
5496	5534	CCGCCUCC C CUAGCUCG	10895	CGAGCUAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCGG	29270
5497	5533	CGCCUCCC C UAGCUCGA	10896	UCGAGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IGGAGG C	29271
5498	5532	GCCUCCCC U AGCUCGAC	10897	GUCGAGCU CUGAUGAG	GCCGUUAGGC	CGAA	IGGGAGG C	29272
5502	5528	CCCUAGC U CGACCUU	10898	AAAGGUCG CUGAUGAG	GCCGUUAGGC	CGAA	ICUAGGGG	29273
5507	5523	AGCUCGAC C UUUGUGGA	10899	UCCACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IUCGAGCU	29274
5508	5522	GCUCGACC U UUGUGGAA	10900	UUCACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGUCGAGC	29275
5524	5506	AAUGUAAC C UCUCGUC	10901	CAGCAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IUUACA U	29276
5525	5505	AUGUAACC U CUUGCUCG	10902	GCAGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGUUA CA	29277
5527	5503	GUAACCU U UGUGCAA	10903	UUGCAGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUUAC	29278
5531	5499	CCUCUUGC U GCAAUGCU	10904	AGCAUUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAGG	29279
5534	5496	CUUGCUC A AUGCUAGC	10905	GCUAGCAU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCAAG	29280
5539	5491	UGCAAUGC U AGCUGGGU	10906	ACCCAGCU CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUGCA	29281
5543	5487	AUGCUGAC U GGUUGGGU	10907	ACCGACCC CUGAUGAG	GCCGUUAGGC	CGAA	ICUAGCAU	29282
5561	5469	AAAUAGC C UCAUCCA	10908	AUGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	ICUAUUU	29283
5562	5468	AAUGAGCC U CAUCCAUC	10909	GAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCAU	29284

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5564	5466	UGAGCCUC A UCCAUCAC	10910	GUGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCUCA	29285
5567	5463	GCCUCAUC C AUCACGAA	10911	UUCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IAUGAGGC	29286
5568	5462	CCUCAUCC A UCACGAAC	10912	GUUCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAGG	29287
5571	5459	CAUCCAUC A CGAACAGG	10913	CCUGUUCG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAUG	29288
5577	5453	UCACGAAC A GGUUGUAG	10914	CUACAACC CUGAUGAG	GCCGUUAGGC	CGAA IUUCGUGA	29289
5592	5438	AGUUCGGC A CCCUGUGA	10915	UCACAGGG CUGAUGAG	GCCGUUAGGC	CGAA ICCGAACU	29290
5594	5436	UUCGGCAC C CUGUGAGG	10916	CCUCACAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCCGAA	29291
5595	5435	UCGGCACC C UGUGAGGA	10917	UCCUCACA CUGAUGAG	GCCGUUAGGC	CGAA IGUGCCGA	29292
5596	5434	CGGCACCC U GUGAGGAG	10918	CUCUCAC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGCCG	29293
5607	5423	GAGGAGAC A UCAGCCUG	10919	CAGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCUC	29294
5610	5420	GAGACAUC A GCCUGUGG	10920	CCACAGGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCUC	29295
5613	5417	ACAUCAGC C UGUGGGUG	10921	CACCCACA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAUGU	29296
5614	5416	CAUCAGCC U GUGGGUGA	10922	UCACCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAUG	29297
5630	5400	AGGUUAGC A UGACACAU	10923	AUGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA ICUACCCU	29298
5635	5395	AGCAUGAC A CAUGACAU	10924	AUGUCAUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGCU	29299
5637	5393	CAUGACAC A UGACAUCA	10925	UGAUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUCAUG	29300
5642	5388	CACAUGAC A UCAACAAU	10926	AUUGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAUGUG	29301
5645	5385	AUGACAUC A ACAUUCUC	10927	GAGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGUCAU	29302
5648	5382	ACAUCAAC A AUCUCAUU	10928	AAUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGU	29303
5652	5378	CAACAAUC U CAUUTCCA	10929	UGGAAUUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGUUG	29304
5654	5376	ACAAUUC C AUUCCAUC	10930	AAUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAUUGU	29305
5659	5371	CUCAUUC C AUUAUGUU	10931	AACAUAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAUGAG	29306
5660	5370	UCAUUC C AUUAUGUU	10932	GAACAUAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAUGA	29307
5669	5361	UUAUGUUC U CUGGGCAC	10933	GUGCCAG CUGAUGAG	GCCGUUAGGC	CGAA IAACAUA	29308
5671	5359	AUGUUCUC U GGGCACUG	10934	CAGUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IAGAACA	29309
5676	5354	CUCUGGGC A CUGCGGAU	10935	AUCCGCAG CUGAUGAG	GCCGUUAGGC	CGAA ICCCAGAG	29310
5678	5352	CUGGGCAC U GCGGAUGU	10936	ACAUCGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCCAG	29311
5688	5342	CGGAUGUC U GGUACCGG	10937	CCGGUACC CUGAUGAG	GCCGUUAGGC	CGAA IACAUCG	29312
5694	5336	UCUGGUAC C GGAUGGGC	10938	GCCCAUCC CUGAUGAG	GCCGUUAGGC	CGAA IUACCAGA	29313
5703	5327	GGAUGGGC A GUCCUCUC	10939	GAGAGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICCCAUCC	29314
5707	5323	GGGCAGUC C UCUCAGUG	10940	CACUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGCCC	29315
5708	5322	GGCAGUCC U CUCAGUGC	10941	GCACUGAG CUGAUGAG	GCCGUUAGGC	CGAA IGACUGCC	29316
5710	5320	CAGUCCUC U CAGUGCUU	10942	AAGCACUG CUGAUGAG	GCCGUUAGGC	CGAA IAGGACUG	29317
5712	5318	GUCCUCUC A GUGCUUCA	10943	UGAAGCAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAC	29318
5717	5313	CUCAGUGC U UCAGCCAU	10944	AUGGCUGA CUGAUGAG	GCCGUUAGGC	CGAA ICACUGAG	29319
5720	5310	AGUGCUUC A GCCAUCUC	10945	GAGAUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAAGACACU	29320
5723	5307	GUUCAGC C AUCUCAGC	10946	GCUGAGAU CUGAUGAG	GCCGUUAGGC	CGAA ICUGAAGC	29321
5724	5306	CUUCAGCC A UCUCAGCA	10947	UGCUGAGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUGAAG	29322
5727	5303	CAGCCAUC U CAGCAGCC	10948	GGCUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGCUG	29323
5729	5301	GCCAUCUC A GCAGCCAC	10949	GUGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGGC	29324
5732	5298	AUCUCAGC A GCCACAAC	10950	GUUGUGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGAU	29325
5735	5295	UCAGCAGC C ACAACCCU	10951	AGGGUUGU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUGA	29326
5736	5294	CAGCAGCC A CAACCCUG	10952	CAGGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGCUG	29327
5738	5292	GCAGCCAC A ACCCUGGU	10953	ACCAGGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGCUGC	29328
5741	5289	GCCACAAC C CUGGUUGG	10954	CCAACGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGC	29329
5742	5288	CCACAACC C UGGUUGGU	10955	ACCAACCA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUGG	29330
5743	5287	CACAACCC U GGUUGGUG	10956	CACCAACC CUGAUGAG	GCCGUUAGGC	CGAA IGGUUGUG	29331
5753	5277	GUUGGUGC U AGCACGGC	10957	GCCGUGCU CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAC	29332
5757	5273	GUGCUAGC A CGGCUUUU	10958	AACAGCCG CUGAUGAG	GCCGUUAGGC	CGAA ICUAGCAC	29333
5762	5268	AGCACGGC U GUUCUCAG	10959	CUGAGAAC CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGCU	29334
5767	5263	GGCUGUUC U CAGUCUUC	10960	GAAGACUG CUGAUGAG	GCCGUUAGGC	CGAA IAACAGCC	29335
5769	5261	CUGUUCUC A GUCUUCUG	10961	CAGAAGAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAACAG	29336
5773	5257	UCUCAGUC U UCUGUUUA	10962	UAAACAGA CUGAUGAG	GCCGUUAGGC	CGAA IACUGAGA	29337
5776	5254	CAGUCUUC U GUUUAUGG	10963	CCAUAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGACUG	29338
5786	5244	UUUAUGGC C UCUUGAU	10964	AUCAAGA CUGAUGAG	GCCGUUAGGC	CGAA ICCAUAAA	29339
5787	5243	UUAUGGCC U CUUUGAUG	10965	CAUCAAG CUGAUGAG	GCCGUUAGGC	CGAA IGCCAUAA	29340
5789	5241	AUGGCCUC U UUGAUGAU	10966	AUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGCCAU	29341
5799	5231	UGAUGAUC U GUGGCAGA	10967	UCUGCCAC CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUCA	29342
5805	5225	UCUGUGGC A GAAUCCUC	10968	GAGGAUUC CUGAUGAG	GCCGUUAGGC	CGAA ICCACAGA	29343
5811	5219	GCAGAAUC C UCCUUGUU	10969	AACAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUCUGC	29344
5812	5218	CAGAAUCC U CCUUGUUU	10970	AAACAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUCUG	29345

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5814	5216	GAAUCCUC C UUGUUUUA	10971	UAAAACAA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUUC	29346
5815	5215	AAUCCUCC U UGUUUUAC	10972	GUAAAACA CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAUUC	29347
5824	5206	UGUUUUAC C GGCGCCGG	10973	CCGGCGCC CUGAUGAG	GCCGUUAGGC	CGAA IUAAAACA	29348
5830	5200	ACCGGCGC C GGAUGGA	10974	UCCAUCCC CUGAUGAG	GCCGUUAGGC	CGAA ICGCCGGU	29349
5843	5187	UGGAGAUC C AGUACAGU	10975	ACUGUACU CUGAUGAG	GCCGUUAGGC	CGAA IAUCUCCA	29350
5844	5186	GGAGAUC C GUACAGUG	10976	CACUGUAC CUGAUGAG	GCCGUUAGGC	CGAA IGACUCC	29351
5849	5181	UCCAGUAC A GUGAUCUG	10977	CAGAUCAC CUGAUGAG	GCCGUUAGGC	CGAA IUACUGGA	29352
5856	5174	CAGUGAUC U GUUUUUUC	10978	GAAAAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAUCACUG	29353
5865	5165	GUUUUUUC C UCAGCAUC	10979	GAUGCUGA CUGAUGAG	GCCGUUAGGC	CGAA IAAAAAAC	29354
5866	5164	UUUUUUUC U CAGCAUCU	10980	AGAUGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAAAAA	29355
5868	5162	UUUUCUCC A GCAUCUCA	10981	UGAGAUGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAAAA	29356
5871	5159	UCCUCAGC A UCUCAGGU	10982	ACCUGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGAGGA	29357
5874	5156	UCAGCAUC U CAGGUUCG	10983	CGAACCUG CUGAUGAG	GCCGUUAGGC	CGAA IAGUCUGA	29358
5876	5154	AGCAUCUC A GGUUCGAA	10984	UUCGAACC CUGAUGAG	GCCGUUAGGC	CGAA IAGAUGCU	29359
5887	5143	UUCGAAUC C GGCUGGGA	10985	UCCCAGCC CUGAUGAG	GCCGUUAGGC	CGAA IAUUCGAA	29360
5891	5139	AAUCCGGC U GGAUUGG	10986	CCAAUCCC CUGAUGAG	GCCGUUAGGC	CGAA ICCGGAUUC	29361
5901	5129	GGAUUGGC U CAUCCAUC	10987	GAUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA ICCAAUCC	29362
5903	5127	AUUGGCUC A UCCAUCU	10988	AGGAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCCAUC	29363
5906	5124	GGCUCauc C AUCCUUUC	10989	GAAAGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAUGAGCC	29364
5907	5123	GCUCAUCC A UCCUUUCA	10990	UGAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAGC	29365
5910	5120	CAUCCAUC C UUCACCC	10991	GGUGGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAUGGAUG	29366
5911	5119	AUCCAUC U UUCACCCU	10992	AGGGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAUGAU	29367
5915	5115	AUCCUUUC A CCCUGCAC	10993	GUGCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGAU	29368
5917	5113	CCUUUCAC C CUGACUA	10994	UAGUGCAG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAAGG	29369
5918	5112	CUUUCACC C UGCACUAU	10995	AUAGUGCA CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAAG	29370
5919	5111	UUUCACCC U GCACUAUC	10996	GAUAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAAA	29371
5922	5108	CACCCUGC A CUAUCGCG	10997	CGCGAUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGGGUG	29372
5924	5106	CCCUGCAC U AUCGCGCU	10998	AGCGCGAU CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGGG	29373
5932	5098	UAUCGCGC U UAUGUAUG	10999	CAUACAUA CUGAUGAG	GCCGUUAGGC	CGAA ICGCGAUA	29374
5944	5086	GUAGAGC C GUUGGGCA	11000	UGCCCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUAC	29375
5952	5078	CGUUGGGC A UUAUGACU	11001	AGUCAUAA CUGAUGAG	GCCGUUAGGC	CGAA ICCCAACG	29376
5960	5070	AUAUGAC U CCAUUGCC	11002	GGCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IUCAUAAU	29377
5962	5068	UAUGACUC C AUUGCCAUC	11003	AUGGCAAU CUGAUGAG	GCCGUUAGGC	CGAA IAGUCAUA	29378
5963	5067	AUGACUCC A UUGCCAUA	11004	UAUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUCAU	29379
5968	5062	UCCAUUGC C AUAAAGCC	11005	GGCUUUUA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUGGA	29380
5969	5061	CCAUUGCC A UAAAGCCC	11006	GGCUUUA CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUGG	29381
5976	5054	CAUAAAGC C CAUACACA	11007	UGUGAUTUG CUGAUGAG	GCCGUUAGGC	CGAA ICUUUAUG	29382
5977	5053	AUAAAGCC C AAUCACAU	11008	AUGUGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGCUUUAU	29383
5978	5052	UAAAGCCC A AUCACAUC	11009	GAUGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUUA	29384
5982	5048	GCCCAAUC A CAUCACCG	11010	CGUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGGC	29385
5984	5046	CCAAUCAC A UCACCGUU	11011	AACGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUUGG	29386
5987	5043	AUCACAUC A CCGUUUUU	11012	AAAAACGG CUGAUGAG	GCCGUUAGGC	CGAA IAUGUGAU	29387
5989	5041	CACAUCAC C GUUUUUGU	11013	ACAAAAC CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGUG	29388
5999	5031	UUUUUGUC C ACUAUUGG	11014	CCAUAUGU CUGAUGAG	GCCGUUAGGC	CGAA IACAAAAA	29389
6000	5030	UUUUGUCC A CUAUUGGU	11015	ACCAUUG CUGAUGAG	GCCGUUAGGC	CGAA IGACAAAA	29390
6002	5028	UUGUCCAC U AUUGGUGA	11016	UCACCAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGGACAA	29391
6013	5017	UGGUGAGC C UGAUGUUC	11017	GAACAUA CUGAUGAG	GCCGUUAGGC	CGAA ICUCACCA	29392
6014	5016	GGUGAGCC U GAUGUUC	11018	GGACAUC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCACC	29393
6022	5008	UGAUGUUC C AGUGGGGA	11019	UCCCCACU CUGAUGAG	GCCGUUAGGC	CGAA IAACAUCA	29394
6023	5007	GAUGUUC C GUGGGGAA	11020	UCCCCAC CUGAUGAG	GCCGUUAGGC	CGAA IGAACAUC	29395
6035	4995	GGGAAGUC C AAAGUCAC	11021	GUGACUUU CUGAUGAG	GCCGUUAGGC	CGAA IACUCCCC	29396
6036	4994	GGAAGUCC A AAGUCACG	11022	CGUGACUU CUGAUGAG	GCCGUUAGGC	CGAA IGACUCC	29397
6042	4988	CCAAAGUC A CGGCCCG	11023	CGGGGCG CUGAUGAG	GCCGUUAGGC	CGAA IACUUUGG	29398
6047	4983	GUCACGGC C CCGAUUUC	11024	GAAAUCCG CUGAUGAG	GCCGUUAGGC	CGAA ICCGUGAC	29399
6048	4982	UCACGGCC C CGAUUUCU	11025	AGAAUUC CUGAUGAG	GCCGUUAGGC	CGAA IGCCGUGA	29400
6049	4981	CACGGCCC C GAUUCUC	11026	GAGAAUC CUGAUGAG	GCCGUUAGGC	CGAA IGGCCGUG	29401
6056	4974	CCGAUUC C CCUUCAGG	11027	CCUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAAAUCCG	29402
6058	4972	GAUUCUC C UUCAGGUG	11028	CACCUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUUC	29403
6059	4971	AUUUCUCC U UCAGGUGU	11029	ACACCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAAU	29404
6062	4968	UCUCCUUC A GGUGUUUU	11030	AAAACACC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGA	29405
6075	4955	UUUGAAC A CCCUGGU	11031	ACCAGGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUCAAUA	29406

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6077	4953	UGAACAC C CCUGGUU	11032	AAACCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUCAA	29407
6078	4952	UGAACACC C CUGGUUUC	11033	GAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUUCA	29408
6079	4951	GAACACCC C UGGUUCG	11034	CGAAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGUGUUC	29409
6080	4950	AACACCCC U GGUUUCGU	11035	ACGAAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGGGUGUU	29410
6090	4940	GUUUCGUC U GGACGUUC	11036	GAACGUCC CUGAUGAG	GCCGUUAGGC	CGAA	IACGAAAC	29411
6099	4931	GGACGUUC U UAACGUUC	11037	GAACGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IAACGUCC	29412
6108	4922	UAACGUUC U UGCCAGGU	11038	ACCUGGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACGUUA	29413
6112	4918	GUUCUUGC C AGGUCCA	11039	UGGAACCU CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGAAC	29414
6113	4917	UUCUUGCC A GGUUCCAC	11040	GUGGAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAAGAA	29415
6119	4911	CCAGGUUC C ACCACAAU	11041	AUUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IAACCUUG	29416
6120	4910	CAGGUUCC A CCACAAUC	11042	GAUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAACCUG	29417
6122	4908	GGUUCACC C ACAUCAU	11043	AUGAUUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAACC	29418
6123	4907	GUUCCACC A CAUCAUC	11044	GAUGAUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGGAAC	29419
6125	4905	UCCACCAC A AUCAUCUG	11045	CAGAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGUGGA	29420
6129	4901	CCACAAUC A UCUGCACC	11046	GGUGCAGA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGUGG	29421
6132	4898	CAUCAUC U GCACCUC	11047	UGAGGUGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAUUG	29422
6135	4895	UCAUCUGC A CCUCAUC	11048	GGAUGAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGAUGA	29423
6137	4893	AUCUGCAC C UCAUCCUG	11049	CAGGAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGCAGAU	29424
6138	4892	UCUGCACC U CAUCCUGC	11050	GCAGGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCAGA	29425
6140	4890	UGCACCUC A UCCUGCCC	11051	GGGCAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGUGCA	29426
6143	4887	ACCUCAUC C UGCCCGUU	11052	AACGGGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAGGU	29427
6144	4886	CCUCAUC U GCCCGUUC	11053	GAACGGGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUGAGG	29428
6147	4883	CAUCCUGC C CGUCCAC	11054	GUGGAACG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGAUG	29429
6148	4882	AUCCUGCC C GUUCCACU	11055	AGUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGGAU	29430
6153	4877	GCCCGUUC C ACUUGUGC	11056	GCACAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAACGGGC	29431
6154	4876	CCCGUUC A CUUGUGCU	11057	AGCACAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGAACGGG	29432
6156	4874	CGUUCAC U UGUGCUGC	11058	GCAGCACA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGAACG	29433
6162	4868	ACUUGUGC U GCAAUUUC	11059	GAAAUUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICACAAGU	29434
6165	4865	UGUGCUGC A AUUCCAG	11060	CUGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCACA	29435
6171	4859	GCAAUUUC C AGGGUCCU	11061	AGGACCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAAAUUGC	29436
6172	4858	CAAUUUCC A GGUCCUC	11062	GAGGACCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAAAUUG	29437
6178	4852	CCAGGGUC C UCCGUAAC	11063	GUUACGGA CUGAUGAG	GCCGUUAGGC	CGAA	IACCCUGG	29438
6179	4851	CAGGGUCC U CCGUAACA	11064	UGUACGG CUGAUGAG	GCCGUUAGGC	CGAA	IGACCCUG	29439
6181	4849	GGGUCCUC C GUAACAAA	11065	UUUGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGACCC	29440
6187	4843	UCCGUAAC A AAGUCGAU	11066	AUCGACUU CUGAUGAG	GCCGUUAGGC	CGAA	IUUACGGA	29441
6197	4833	AGUCGAUC C UCCUUGAC	11067	GUCAAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGACGACU	29442
6198	4832	GUCGAUC U CCUUGACA	11068	UGUCAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGUCGAC	29443
6200	4830	CGAUCCUC C UUGACACU	11069	AGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAUCG	29444
6201	4829	GAUCCUC U UGACACUG	11070	CAGUGUCA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAUC	29445
6206	4824	UCCUUGAC A CUGCCCA	11071	UGGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA	IUCAAGGA	29446
6208	4822	CUUGACAC U GCCCAGU	11072	ACUGGGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGUCAAG	29447
6211	4819	GACACUGC C CCAGUAUG	11073	CAUACUGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGUC	29448
6212	4818	ACACUGCC C CAGUAUGG	11074	CCAUACUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGUGU	29449
6213	4817	CACUGCCC C AGUAUGGG	11075	CCCAUACU CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAGUG	29450
6214	4816	ACUGCCCC A GUAUGGGU	11076	ACCCAUA CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAGU	29451
6224	4806	UAUGGGUC C AGGCGGCC	11077	GGCCGCCU CUGAUGAG	GCCGUUAGGC	CGAA	IACCCAUA	29452
6225	4805	AUGGGUCC A GGC GGCCC	11078	GGGCGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGACCCAU	29453
6232	4798	CAGCGGCC C CUCUCCGC	11079	GCGGAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCCUG	29454
6233	4797	AGGCGGCC C UCUCGCU	11080	AGCGGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCGCCU	29455
6234	4796	GGCGGCC U CUCGCU	11081	GAGCGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGCC	29456
6236	4794	CGGCCUC U CCGCUCAU	11082	AUGAGCGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGCCG	29457
6238	4792	GCCCUC C GCUCAUCA	11083	UGAUGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGGGC	29458
6241	4789	CUCUCCG U CAUCAAAG	11084	CUUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IGCGGAG	29459
6243	4787	CUCGCU C UCAAAGCG	11085	CGCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGGAG	29460
6246	4784	CGCUCAUC A AAGCGGCU	11086	AGCCGCUU CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAGCG	29461
6254	4776	AAAGCGGC U CCUUUGU	11087	ACAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGCUU	29462
6256	4774	AGCGGCUC C UUUUGUUG	11088	CAACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCGCU	29463
6257	4773	GCGGCUC U UUUUGUUG	11089	ACACAAA CUGAUGAG	GCCGUUAGGC	CGAA	IGACCGC	29464
6270	4760	UUGUAUGC C AAAGGGUG	11090	CACCCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICAUACAA	29465
6271	4759	UGUAUGCC A AAGGGUGU	11091	ACACCCUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUACA	29466
6287	4743	UGGAAAAC A CCUUCAC	11092	GUUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUUUCCA	29467

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6289	4741	GAAAACAC C UUCAACCA	11093	UGGUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUGUUUUC	29468
6290	4740	AAAACACC U UCAACCAU	11094	AUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUUUU	29469
6293	4737	ACACCUUC A ACCAUCAC	11095	GUGAUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUGU	29470
6296	4734	CCUUCAAC C AUCACGCC	11096	GGCGUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAAGG	29471
6297	4733	CUUCAACC A UCACGCC	11097	GGGCGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAG	29472
6300	4730	CAACCAUC A CGCCCGCU	11098	AGCGGGCG CUGAUGAG	GCCGUUAGGC	CGAA IAUGGUUG	29473
6304	4726	CAUCACGC C CGCUCCUG	11099	CAGGAGCG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAUG	29474
6305	4725	AUCACGCC C GCUCUCG	11100	GCAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA ICGUGAU	29475
6308	4722	ACGCCCGC U CCUGCUUG	11101	CAAGCAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGGGCGU	29476
6310	4720	GCCCGCUC C UGCUUGAU	11102	AUCAAGCA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGGGC	29477
6311	4719	CCCGCUCC U GCUUGAU	11103	UAUCAAGC CUGAUGAG	GCCGUUAGGC	CGAA IGAGCGGG	29478
6314	4716	GCUCUCG U UGAUAACU	11104	AGUUAUCA CUGAUGAG	GCCGUUAGGC	CGAA ICAGGAGC	29479
6322	4708	UUGAUAAC U GCCGAGCA	11105	UGUCUGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUCAA	29480
6325	4705	AUAACUGC C GAGCAGCC	11106	GGCUGCUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUAU	29481
6330	4700	UGCCGAGC A GCCCACGA	11107	UCGUGGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUCGGCA	29482
6333	4697	CGAGCAGC C CACGAGUC	11108	GACUCGUG CUGAUGAG	GCCGUUAGGC	CGAA ICUCGUCG	29483
6334	4696	GAGCAGCC C ACAGUCA	11109	UGACUCGU CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUC	29484
6335	4695	AGCAGCCC A CGAGUCAU	11110	AUGACUCG CUGAUGAG	GCCGUUAGGC	CGAA IGGUCGCU	29485
6342	4688	CACGAGUC A UGAUCCUG	11111	CAGGAUCA CUGAUGAG	GCCGUUAGGC	CGAA IACUCGUG	29486
6348	4682	UCAUGAUC C UGUAGACG	11112	CGUCUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUGA	29487
6349	4681	CAUGAUCC U GUAGACGC	11113	CGUCUAC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUAUG	29488
6358	4672	GUAGACGC C GGUGGUCG	11114	CGACCACC CUGAUGAG	GCCGUUAGGC	CGAA ICGUCUAC	29489
6371	4659	GUCGUGUC C CCCUUUUU	11115	AAAAAGGG CUGAUGAG	GCCGUUAGGC	CGAA IACACGAC	29490
6372	4658	UCGUGUCC C CCUUUUUG	11116	CAAAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IGACACGA	29491
6373	4657	CGUGUCCC C CUUUUUGU	11117	ACAAAAG CUGAUGAG	GCCGUUAGGC	CGAA IGGACACG	29492
6374	4656	GUGUCCCC C UUUUUGUA	11118	UACAAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGACAC	29493
6375	4655	UGUCCCCC U UUUUGUAC	11119	GUACAAAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGACAC	29494
6384	4646	UUUUGUAC U CCUUUGGU	11120	ACCAAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUACAAAA	29495
6386	4644	UUGUACUC C UUGGUGA	11121	UCACCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUACAA	29496
6387	4643	UGUACUCC U UUGGUGAG	11122	UCACCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUACAA	29497
6404	4626	GGAGUGUC C CACAACAC	11123	GUGUUGUG CUGAUGAG	GCCGUUAGGC	CGAA IACACUCC	29498
6405	4625	GAGUGUCC C ACAACACG	11124	CGUGUUGU CUGAUGAG	GCCGUUAGGC	CGAA IGACACUC	29499
6406	4624	AGUGUCCC A CAACACGC	11125	GCGUGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGGACACU	29500
6408	4622	UGUCCAC A ACACGCCU	11126	AGGCGUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGACA	29501
6411	4619	CCCACAAC A CGCCUCCU	11127	AGGAGGCG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGG	29502
6415	4615	CAACACGC C UCCUCUCU	11128	AGAGAGGA CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUUG	29503
6416	4614	AACACGCC U CCUCUCU	11129	AAGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGUGUU	29504
6418	4612	CACGCCUC C UCUCUUG	11130	CAAGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGUG	29505
6419	4611	ACGCCUCC U CUCUUGU	11131	ACAAAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGCGU	29506
6421	4609	GCCUCCUC U CUUUGUGU	11132	ACACAAAG CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGGC	29507
6423	4607	CUCCUCUC U UUGUGUAU	11133	AUACACAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAG	29508
6444	4586	GAGUUAUC C AAAAUCCA	11134	UGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUAAUCU	29509
6445	4585	AGUUAUCC A AAAUCCAA	11135	UUGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUAACU	29510
6451	4579	CCAAAUC C AACUACUG	11136	CAGUAGUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUGG	29511
6452	4578	CAAAAUCC A ACUACUGA	11137	UCAGUAGU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUUG	29512
6455	4575	AAUCCAAC U ACUGAGGG	11138	CCUCAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAUU	29513
6458	4572	CCAACUAC U GAGGGCAA	11139	UUGCCUC CUGAUGAG	GCCGUUAGGC	CGAA IUAGUUGG	29514
6465	4565	CUGAGGGC A AGAUUGCC	11140	GGCAAUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAG	29515
6473	4557	AAGAUUGC C CAGGGGGU	11141	ACCCCCUG CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCU	29516
6474	4556	AGAUUGCC C AGGGGGUG	11142	CACCCCU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAUCU	29517
6475	4555	GAUUGCCC A GGGGGUGU	11143	ACACCCC CUGAUGAG	GCCGUUAGGC	CGAA IGGCAAUC	29518
6488	4542	GUGUACGC A CUAUCCG	11144	GCGAUUAG CUGAUGAG	GCCGUUAGGC	CGAA ICGUACAC	29519
6490	4540	GUACGCAC U AAUCGCGA	11145	UCGCGAUU CUGAUGAG	GCCGUUAGGC	CGAA IUGCGUAC	29520
6502	4528	CGCGAGAC A GACCAUUC	11146	GAAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IUCUCGCG	29521
6506	4524	AGACAGAC A AUUCUGAG	11147	CUCAGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUCU	29522
6507	4523	GACAGACC A UUCUGAGC	11148	GCUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGUC	29523
6511	4519	GACCAUUC U GAGCAUCC	11149	GGAUGCUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGUC	29524
6516	4514	UUCUGAGC A UCCAUAUC	11150	GAUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCAGAA	29525
6519	4511	UGAGCAUC C AUAUCUUC	11151	GAAGAUU CUGAUGAG	GCCGUUAGGC	CGAA IAUGCUC	29526
6520	4510	GAGCAUCC A UAUCUUC	11152	GGAAGAU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGCUC	29527
6525	4505	UCCAUAUC U UCCAAGGU	11153	ACCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGA	29528

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6528	4502	AUAUCUUC C AAGUGUCU	11154	AGCACCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGAUAU	29529
6529	4501	UAUCUUC C AAGUGUCU	11155	GAGCACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAGAU	29530
6536	4494	CAAGGUGC U CCUGGAUC	11156	GAUCCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICACCUUG	29531
6538	4492	AGGUGCUC C UGGAUCAU	11157	AUGAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCACCU	29532
6539	4491	GGUGCUC U GGAUCAU	11158	AAUGAUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGCACC	29533
6545	4485	CCUGGAUC A UUCAUGAG	11159	CUCAUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCCAGG	29534
6549	4481	GAUCAUUC A UGAGCUGG	11160	CCAGCUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAUGAUC	29535
6555	4475	UCAUGAGC U GGAAGUUU	11161	AAACUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCAUGA	29536
6565	4465	GAAGUUUC C AUCAUCAU	11162	AUGAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAACUUC	29537
6566	4464	AAGUUUC A UCAUCAUC	11163	GAUGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAACUUC	29538
6569	4461	UUUCAUC A UCAUCAAG	11164	CUUGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGGAAA	29539
6572	4458	CCAUCAUC A UCAAGCCG	11165	CGGCUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGAUGG	29540
6575	4455	UCAUCAUC A AGCCGCAC	11166	GUGCGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGAUGA	29541
6579	4451	CAUCAAGC C GCACAUC	11167	UGAUGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGAUG	29542
6582	4448	CAAGCCGC A CAUACAUC	11168	AGUUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGCUUG	29543
6584	4446	AGCCGCAC A UCAACUCU	11169	AGAGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGCGGCU	29544
6587	4443	CGCACAUC A ACUCUUC	11170	GAAAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUGCG	29545
6590	4440	ACAUCAAC U CUUUCGCU	11171	AGCGAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAUGU	29546
6592	4438	AUCAACUC U UUCGUCG	11172	CGAGCGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUUGAU	29547
6598	4432	UCUUCGCU U CGAGCCUG	11173	CAGGCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGAAAGA	29548
6604	4426	GCUCGAGC C UGUAAUUU	11174	AAAUUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCCAGC	29549
6605	4425	CUCGAGCC U GUAAUUUC	11175	GAAAUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUCGAG	29550
6614	4416	GUAAUUUC U GCAUCACU	11176	AGUGAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAUUAU	29551
6617	4413	AUUUCGCU A UCACUUC	11177	GAAAGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAGAAAU	29552
6620	4410	UCUGCAUC A CUUCCCA	11178	UGGAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGCAGA	29553
6622	4408	UGCAUCAC U UUCCAGG	11179	CCUGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAUGCA	29554
6626	4404	UCACUUC C CAGGAAU	11180	AUUUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAGUGA	29555
6627	4403	CACUUUC C AGGAAUG	11181	CAUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAAGUG	29556
6628	4402	ACUUUC C A GGAAGU	11182	ACAUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAAGU	29557
6638	4392	GAAUGUC C GCCGUUCU	11183	AGAACGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAUUUC	29558
6641	4389	AUGUCCGC C GUUCUCUC	11184	GAGAGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGACAU	29559
6646	4384	CGCCGUUC U CUCAAUCC	11185	GGAUUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAACGGCG	29560
6648	4382	CCGUUCU U CAUCCAC	11186	GUGGAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAACGG	29561
6650	4380	GUUCUCUC A AUCCACAU	11187	AUGUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAGAAC	29562
6654	4376	UCUCAUC C ACAUAUCU	11188	AGAUAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUUGAGA	29563
6655	4375	CUCAAUC C CAUAUCUG	11189	CAGAUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUAUGA	29564
6657	4373	CAAUCCAC A UAUCUGUU	11190	AACAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGAUUG	29565
6662	4368	CACAUUC U GUUGAUUU	11191	AAAUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUAUGUG	29566
6672	4358	UUGAUUUC C CAGAAUC	11192	GAUUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAAUCAA	29567
6673	4357	UGAUUUC C AGAAUCA	11193	UGAUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAAUCA	29568
6674	4356	GAUUUC C A GAAUCAC	11194	GUGAUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAAAU	29569
6681	4349	CAGAAUC A CGAAAGCA	11195	UGCUUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUUUCUG	29570
6689	4341	ACGAAAGC A GCAAACAU	11196	AUGUUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUUCGU	29571
6692	4338	AAAGCAGC A AACAUGAG	11197	CUCAUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGCUUG	29572
6696	4334	CAGCAAAC A UGAGCCCC	11198	GGGCGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUGCUG	29573
6702	4328	ACAUGAGC C CCGGAUA	11199	UAUCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCAUGU	29574
6703	4327	CAUGAGCC C CGGAUAG	11200	CUAUCGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUCAUG	29575
6704	4326	AUGAGCCC C GCGAUAGU	11201	ACUAUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGCUCAU	29576
6714	4316	CGAUAGUC A UUGGAAUG	11202	CAUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUAUCG	29577
6725	4305	GGAUUGGC C AUGGAGUC	11203	GACUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAUUC	29578
6726	4304	GAAUGGCC A UGGAGUCA	11204	UGACUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCCAUC	29579
6734	4296	AUGGAGUC A AUGUCAAG	11205	CUUGACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUCCA	29580
6740	4290	UCAUGUC A AGCUCUGC	11206	GCAGAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAUUGA	29581
6744	4286	UGUCAAGC U CUGCCAGC	11207	GCUGGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUGACA	29582
6746	4284	UCAAGCUC U GCCAGCCC	11208	GGGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCUUGA	29583
6749	4281	AGCUCUGC C AGCCUCC	11209	GGAGGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAGAGCU	29584
6750	4280	GCUCUGCC A GCCUCCG	11210	CGAGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCAGAGC	29585
6753	4277	CUGCCAGC C CUCCGACG	11211	CGUCGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGGCAG	29586
6754	4276	UGCCAGCC C UCCGACGA	11212	UCGUCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUGGCA	29587
6755	4275	GCCAGCCC U CCGACGAU	11213	AUCGUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGCUGGC	29588
6757	4273	CAGCCUC C GACGAUGG	11214	CCAUCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGGCUG	29589

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6767	4263	ACGAUGGC A AACAUUAG	11215	CUAAUGUU CUGAUGAG	GCCGUUAGGC	CGAA ICCAUCGU	29590
6771	4259	UGGCAAAC A UUAGGCCG	11216	CGGCCUAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUGCCA	29591
6778	4252	CAUUAGGC C GACAGCUG	11217	CAGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA ICCUAAUG	29592
6782	4248	AGGCCGAC A GCUGUCAU	11218	AUGACAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCCU	29593
6785	4245	CCGACAGC U GUCAUCAC	11219	GUGAUGAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCGG	29594
6789	4241	CAGCUGUC A UCACUUCA	11220	UGAAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IACAGCUG	29595
6792	4238	CUGUCAUC A CUUCAGUU	11221	AACUGAAG CUGAUGAG	GCCGUUAGGC	CGAA IAUGACAG	29596
6794	4236	GUCAUCAC U UCAGUUGC	11222	GCAACUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUGAC	29597
6797	4233	AUCACUUC A GUUGC GGG	11223	CCCGCAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAGUGAU	29598
6807	4223	UUGCGGGC C AUCCGCGU	11224	ACGCGGAU CUGAUGAG	GCCGUUAGGC	CGAA ICCCGCAA	29599
6808	4222	UGCGGGCC A UCCGCGUU	11225	AACGCGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCCGCA	29600
6811	4219	GGGCCAUC C GCGUUUAC	11226	GUAACCGC CUGAUGAG	GCCGUUAGGC	CGAA IAUGGCC	29601
6830	4200	UUGGGAUC A CAUGCAAU	11227	AUUGCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUCCCAA	29602
6832	4198	GGGAUCAC A UGCAAUCA	11228	UGAUUGCA CUGAUGAG	GCCGUUAGGC	CGAA IUGAUCCC	29603
6836	4194	UCACAUGC A AUCAGUCC	11229	GGACUGAU CUGAUGAG	GCCGUUAGGC	CGAA ICAUGUGA	29604
6840	4190	AUGCAAUC A GUCCAGCA	11230	UGCUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGCAU	29605
6844	4186	AAUCAGUC C AGCAGCAA	11231	UUGCUGCU CUGAUGAG	GCCGUUAGGC	CGAA IACUGAUU	29606
6845	4185	AUCAGUCC A GCAGCAAG	11232	CUUGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IGACUGAU	29607
6848	4182	AGUCCAGC A GCAAGGAU	11233	AUCCUUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGACU	29608
6851	4179	CCAGCAGC A AGGAUCAU	11234	AUGAUCCU CUGAUGAG	GCCGUUAGGC	CGAA ICUGCUG	29609
6858	4172	CAAGGAUC A UGGGUUG	11235	CAACCCCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCUUG	29610
6874	4156	GAAAAGUC C UGUUGAGG	11236	CCUCAACA CUGAUGAG	GCCGUUAGGC	CGAA IACUUUUC	29611
6875	4155	AAAAGUCC U GUUGAGGC	11237	GCCUCAAC CUGAUGAG	GCCGUUAGGC	CGAA IGACUUUU	29612
6884	4146	GUUGAGGC U AGAGCCAA	11238	UUGGCUCU CUGAUGAG	GCCGUUAGGC	CGAA ICCUCAAC	29613
6890	4140	GCUAGAGC C AAGCAUAG	11239	CUAUGCUU CUGAUGAG	GCCGUUAGGC	CGAA ICUCUAGC	29614
6891	4139	CUAGAGCC A AGCAUAGC	11240	GCUAUGCU CUGAUGAG	GCCGUUAGGC	CGAA IGCUCUAG	29615
6895	4135	AGCCAAGC A UAGCAGAC	11241	GUCUGCUA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGCU	29616
6900	4130	AGCAUAGC A GACUUGCU	11242	AGCAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICUAUGCU	29617
6904	4126	UAGCAGAC U UGCUCUU	11243	AAGGAGCA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGCUA	29618
6908	4122	AGACUUGC U CCUUUUUU	11244	AAGAAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICAAGUCU	29619
6910	4120	ACUUGCUC C UUUUUUUU	11245	AAAAGAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCAAGU	29620
6911	4119	CUUGCUCU U UUCUUUUU	11246	AAAAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAAG	29621
6915	4115	CUCCUUUC U UUUUUGCA	11247	UGCAAAA CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGAG	29622
6923	4107	UUUUUUGC A GCUGCACU	11248	AGUGCAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAAAAAA	29623
6926	4104	UUUGCAGC U GCACUCCU	11249	AGGAGUGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCAAA	29624
6929	4101	GCAGCUGC A CUCCUCUU	11250	AAGAGGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUGC	29625
6931	4099	AGCUGCAC U CCUCUUUCU	11251	AGAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGCU	29626
6933	4097	CUGCACUC C UCUCUCC	11252	GGAGAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGCAG	29627
6934	4096	UGCACUCC U CUUCUCCC	11253	GGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGCA	29628
6936	4094	CACUCCUC U UCUCUCCG	11254	CAGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGUG	29629
6939	4091	UCCUCUUC U CCCUGAUC	11255	GAUCAGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGAGGA	29630
6941	4089	CUCUCUUC C CUGAUCAA	11256	UUGAUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGAG	29631
6942	4088	UCUUCUCC C UGAUCAAG	11257	CUUGAUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAGA	29632
6943	4087	CUUCUCCC U GAUCAAGC	11258	GCUUGAUC CUGAUGAG	GCCGUUAGGC	CGAA IGGAGAAG	29633
6948	4082	CCCUGAUC A AGCUGCCU	11259	AGGCAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAUAGGG	29634
6952	4078	GAUCAAGC U GCCUAUUC	11260	GAAUAGGC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGAUC	29635
6955	4075	CAAGCUGC C UAUCCGA	11261	UCGGAUA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCUUG	29636
6956	4074	AAGCUGCC U AUUCCGAC	11262	GUCGGAU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGCUU	29637
6961	4069	GCCUAUUC C GACCAUCA	11263	UGAUGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGGC	29638
6965	4065	AUUCGAC C AUCAACAG	11264	CUGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCGGAU	29639
6966	4064	UUCGACC A UCAACAGC	11265	GCUGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCGGAA	29640
6969	4061	CGACCAUC A ACAGCAGU	11266	ACUGCUGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGUCG	29641
6972	4058	CCAUCAAC A GCAGUAUC	11267	GAUACUGC CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGG	29642
6975	4055	UCAACAGC A GUAUCCUG	11268	CAGGAUAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUUGA	29643
6981	4049	GCAGUAUC C UGUACACA	11269	UGUGUACA CUGAUGAG	GCCGUUAGGC	CGAA IAUACUGC	29644
6982	4048	CAGUAUCC U GUACACAU	11270	AUGUGUAC CUGAUGAG	GCCGUUAGGC	CGAA IGAUACUG	29645
6987	4043	UCCUGUAC A CAUCCAGA	11271	UCUGGAUG CUGAUGAG	GCCGUUAGGC	CGAA IUACAGGA	29646
6989	4041	CUGUACAC A UCCAGAUU	11272	AAUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IUGUACAG	29647
6992	4038	UACACAUC C AGAUUCA	11273	UUGAAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAUGUGUA	29648
6993	4037	ACACAUCC A GAUUCAG	11274	CUUGAAUC CUGAUGAG	GCCGUUAGGC	CGAA IGAUGUGU	29649
6999	4031	CCAGAUUC A AGCAUCUC	11275	GAGAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAUCUGG	29650

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7003	4027	AUUCAAGC A UCUCAGCC	11276	GGCUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGAAU	29651
7006	4024	CAAGCAUC U CAGCCCGG	11277	CCGGGCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGCUUG	29652
7008	4022	AGCAUCUC A GCCCGGGU	11278	ACCCGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUGCU	29653
7011	4019	AUCUCAGC C CGGGUGUU	11279	AACACCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGAGAU	29654
7012	4018	UCUCAGCC C GGGUGUUA	11280	UACACCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUGAGA	29655
7023	4007	GUGUUAGC A GGGCUAGC	11281	GCUAGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAACAC	29656
7028	4002	AGCAGGGC U AGCAGCGG	11282	CCGCUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCUGCU	29657
7032	3998	GGGCUAGC A GCGGAACA	11283	UGUCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUAGCCC	29658
7040	3990	AGCGGAAC A ACCACGUU	11284	AACGUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCGCUU	29659
7043	3987	GGAAACAAC C ACGUUUGA	11285	UCAAACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGUUC	29660
7044	3986	GAACAACC A CGUUUGAU	11286	AUCAAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUUGUUC	29661
7073	3957	GUUAUGGC U CUCAGUUA	11287	AUACUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAUAAC	29662
7075	3955	UAUGGCUC U CAGUAUCA	11288	UGAUACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCCAUA	29663
7077	3953	UGGCUCUC A GUUAUCAUC	11289	GAUGAUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAGCCA	29664
7083	3947	UCAGUAUC A UCCAAGCU	11290	AGCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUACUGA	29665
7086	3944	GUUAUCAUC C AAGCUACC	11291	GGUAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGAUAC	29666
7087	3943	UAUCAUCC A AGCUACCG	11292	CGGUAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUGAUA	29667
7091	3939	AUCCAAGC U ACCGCCAG	11293	CUGGCGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUGGAU	29668
7094	3936	CAAGCUAC C GCCAGUGA	11294	UCACUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAGCUUG	29669
7097	3933	GCUACGCC C AGUGAAUU	11295	AAUUCACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGUAGC	29670
7098	3932	CUACCGCC A GUGAAUUC	11296	GAAUUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGGUAG	29671
7107	3923	GUGAAUUC A ACACAUCA	11297	UGAUGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAUUCAC	29672
7110	3920	AAUUCAAC A CAUCAGGG	11298	CCCUGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAAUU	29673
7112	3918	UUCAACAC A UCAGGGAU	11299	AUCCUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUGAA	29674
7115	3915	AACACAUC A GGAUCUC	11300	GAGAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUGUU	29675
7122	3908	CAGGGAUC U CCCAGAGC	11301	GCUCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCCUG	29676
7124	3906	GGGAUCUC C CAGAGCAG	11302	CUGCUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUCU	29677
7125	3905	GGAUUCU C AGAGCAGA	11303	UCUGCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGAUC	29678
7126	3904	GAUCUCC A GAGCAGAA	11304	UUUGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGAGAU	29679
7131	3899	CCCAGAGC A GAAUUUGG	11305	CCAAAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCUGGG	29680
7145	3885	UGGCGGGC A UCGUGAUA	11306	UAUCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCCGCCA	29681
7157	3873	UGAUAAGC C AUUGAAA	11307	UUUCAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUUAUCA	29682
7158	3872	GAUAAGCC A UUUGAAAG	11308	CUUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUUAUC	29683
7172	3858	AAGAAAC A GCCGCCAA	11309	UUGGCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUUCU	29684
7175	3855	AAAACAGC C GCCAACAU	11310	AUGUUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGUUU	29685
7178	3852	ACAGCCGC C AACAUCAA	11311	UUGAUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGGCUGU	29686
7179	3851	CAGCCGCC A ACAUCAAC	11312	GUUGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGGUG	29687
7182	3848	CCGCCAAC A UCAACAAA	11313	UUUGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGGCGG	29688
7185	3845	CCAACAUC A ACAAAUUG	11314	CAUUUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUUGG	29689
7188	3842	ACAUCAAC A AAUGUUC	11315	GAACAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGAUGU	29690
7197	3833	AAAUUGUUC U CCUGGUUG	11316	CAACCAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAACAUUU	29691
7199	3831	AUGUUCUC C UGGUUGGU	11317	ACCAACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAACAU	29692
7200	3830	UGUUCUCC U GGUUGGUC	11318	GACCAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGAACA	29693
7209	3821	GGUUGGUC C AUCUCGU	11319	AGCGAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACCAACC	29694
7210	3820	GUUGGUCC A UCUCGCUU	11320	AAGCGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGACCAAC	29695
7213	3817	GGUCCAUC U CGCUUGA	11321	UCAAAGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGGACC	29696
7217	3813	CAUCUCGC U UUGAGAAA	11322	UUUCUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGAGAUG	29697
7232	3798	AACGAUGC C ACCAUAAA	11323	UUUAUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAUCGUU	29698
7233	3797	ACGAUGCC A CCAUAAAC	11324	GUUUUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCAUCGU	29699
7235	3795	GAUGCCAC C AUAAACAC	11325	GUGUUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGCAUC	29700
7236	3794	AUGCCACC A UAAACACU	11326	AGUGUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGGCAU	29701
7242	3788	CCAUAAC A CUGGUUGU	11327	ACAACCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUAUGG	29702
7244	3786	AUAAACAC U GGUUGUAU	11328	AUACAACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUUAU	29703
7254	3776	GUUGUAUC U UGAAGGUC	11329	GACCUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUACAAC	29704
7265	3765	AAGGUCGC C AUGAGCGC	11330	GGCGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGACCUU	29705
7266	3764	AGGUCGCC A UGAGCGCC	11331	GGCGUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGACCU	29706
7274	3756	AUGAGCGC C AAGUGUAC	11332	GUACACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGUCAU	29707
7275	3755	UGAGCGCC A AGUGUACC	11333	GGUACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCGUCAU	29708
7283	3747	AAGUGUAC C ACGUCUCC	11334	GGAGACGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUACACUU	29709
7284	3746	AGUGUACC A CGUCUCCU	11335	AGGAGACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUACACU	29710
7289	3741	ACCACGUC U CCUCCGA	11336	UCGGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACGUGGU	29711

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7291	3739	CACGUCUC C UCCCGAAU	11337	AUUCGGGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGACGUG	29712
7292	3738	ACGUCUCC U CCCGAAU	11338	AAUUCGGG CUGAUGAG	GCCGUUAGGC	CGAA	IGAGACGU	29713
7294	3736	GUCUCUCC C CGAAUAG	11339	CUAAUUCG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGAGAC	29714
7295	3735	UCUCCUCC C GAAUAGA	11340	UCUAAUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGAGA	29715
7307	3723	UUAGAUUC U GCGAAAGC	11341	GCUUUCGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUCUAA	29716
7316	3714	GCGAAAGC U GCCCCAC	11342	GUGGGGGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUUUCGC	29717
7319	3711	AAAGCUGC C CCCACCA	11343	UUGGUGGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCUU	29718
7320	3710	AAGCUGCC C CCACCAAG	11344	CUUGGUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAGCUU	29719
7321	3709	AGCUGCCC C CACCAAGA	11345	UCUUGGUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAGCU	29720
7322	3708	GCUGCCCC C ACCAAGAU	11346	AUCUUGGU CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCAGC	29721
7323	3707	CUGCCCC C CCAAGAUG	11347	CAUCUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGGGGCAG	29722
7325	3705	GCCCCCAC C AAGAUGAC	11348	GUCAUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGGC	29723
7326	3704	CCCCCACC A AGAUGACA	11349	UGUCAUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUGGGGG	29724
7334	3696	AAGAUGAC A UAGCGUAA	11350	UUACGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUCU	29725
7344	3686	AGCGUAA C CAUCAGUG	11351	CACUGAUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUAUCGU	29726
7346	3684	CGUAAAC A UCAGUGUA	11352	UACACUGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUAACG	29727
7349	3681	AACACAUC A GUGUAAGU	11353	ACUACAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUGUGUU	29728
7363	3667	AGUAAUGC C CCCAAACA	11354	UGUUUGGG CUGAUGAG	GCCGUUAGGC	CGAA	ICAUUACU	29729
7364	3666	GUAUUGCC C CCAAACAC	11355	GUGUUUGG CUGAUGAG	GCCGUUAGGC	CGAA	IGCAUUA	29730
7365	3665	UAAUGCCC C CAAACACC	11356	GGUGUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCAUUA	29731
7366	3664	AAUGCCCC C AAACACCA	11357	UGUGUUUU CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCAU	29732
7367	3663	AUGCCCCC A AACACCAG	11358	UGGUGUUU CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGGG	29733
7371	3659	CCCCAAAC A CCAGGACU	11359	AGUCCUGG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGGG	29734
7373	3657	CCAAACAC C AGGACUAG	11360	CUAGUCCU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUUGG	29735
7374	3656	CAAACACC A GGACUAGC	11361	GCUAGUCC CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUUUG	29736
7379	3651	ACCAGGAC U AGCAGAGC	11362	GCUCUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUGGU	29737
7383	3647	GGACUAGC A GAGCAUUC	11363	GAUUGCUC CUGAUGAG	GCCGUUAGGC	CGAA	ICUAGUCC	29738
7388	3642	AGCAGAGC A AUCAGUAU	11364	AUACUGAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUGCU	29739
7392	3638	GAGCAAUC A GUAUAGCU	11365	AGCUAUAC CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGUCC	29740
7400	3630	AGUAUAGC U GGCAUGCU	11366	AGCAUGCC CUGAUGAG	GCCGUUAGGC	CGAA	ICUAUACU	29741
7404	3626	UAGCUGGC A UGCUGAUC	11367	GAUCAGCA CUGAUGAG	GCCGUUAGGC	CGAA	ICAGCUA	29742
7408	3622	UGGCAUGC U GAUCUUGG	11368	CCAAGAUC CUGAUGAG	GCCGUUAGGC	CGAA	ICAUGCCA	29743
7413	3617	UGCUGAUC U UGGCUGUC	11369	GACAGCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAGCA	29744
7418	3612	AUCUUGGC U GUCCACCU	11370	AGGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAGAU	29745
7422	3608	UGGCUGUC C ACCUCUUG	11371	CAAGAGGU CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCCA	29746
7423	3607	GGCUGUCC A CCUCUUGC	11372	GCAAGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGACAGCC	29747
7425	3605	CUGUCCAC C UCUCUGCA	11373	UCGCAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGGACAG	29748
7426	3604	UGUCACAC U CUUGCGAA	11374	UUCGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IUGGACA	29749
7428	3602	UCCACCUC U UGCGAAGG	11375	CCUUCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGGA	29750
7439	3591	CGAAGGAC C UCCUGGGU	11376	ACCCAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUUCG	29751
7440	3590	GAAGGACC U CCUGGGUG	11377	CACCCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGUCCUUC	29752
7442	3588	AGGACCUC C UGGUGGCG	11378	GCCACCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUCCU	29753
7443	3587	GGACCUCC U GGGUGGCC	11379	GGCCACCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGGUCC	29754
7451	3579	UGGUGGGC C AAGAACAC	11380	GUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA	ICCAACCA	29755
7452	3578	GGGUGGGC A AGAACACG	11381	CGUGUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCACCC	29756
7458	3572	CCAAGAAC A CGACCAGA	11382	UCGGGUCG CUGAUGAG	GCCGUUAGGC	CGAA	IUUCUUGG	29757
7463	3567	AACACGAC C AGAAGGCC	11383	GGCCUUCU CUGAUGAG	GCCGUUAGGC	CGAA	IUCGUGU	29758
7464	3566	ACACGACC A GAAGGCC	11384	GGCCUUC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUGU	29759
7471	3559	CAGAAGGC C CAACUGAA	11385	UUCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICCUUCUG	29760
7472	3558	AGAAGGCC C AACUGAAA	11386	UUUCAGUU CUGAUGAG	GCCGUUAGGC	CGAA	IGCCUUCU	29761
7473	3557	GAAGGCC A ACUGAAAA	11387	UUUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCUUC	29762
7476	3554	GGCCCAAC U GAAAAGGG	11388	CCCUUUUC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGGCC	29763
7487	3543	AAAGGGUC A AUCAUAUC	11389	GAUAUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IACCCUUU	29764
7491	3539	GGUCAUUC A UAUCAGCA	11390	UGCUGAUA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGACC	29765
7496	3534	AUCAUAUC A GCAUUAUA	11391	UAUAUAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAUAUGAU	29766
7499	3531	AUAUCAGC A UUAUAAGC	11392	GUUAUAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUGAUU	29767
7508	3522	UUAUAAGC A UUCACUUG	11393	CAAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICUUAUAA	29768
7512	3518	AAGCAUUC A CUUGUGAC	11394	GUCACAAG CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGCUU	29769
7514	3516	GCAUUCAC U UGUGACUG	11395	CAGUCACA CUGAUGAG	GCCGUUAGGC	CGAA	IUGAAUGC	29770
7521	3509	CUUGUGAC U GCACGAGG	11396	CCUCGUGC CUGAUGAG	GCCGUUAGGC	CGAA	IUCACAAG	29771
7524	3506	GUGACUGC A CGAGGGUC	11397	GACCCUCG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUCAC	29772

7533	3497	CGAGGGUC U UUUCAUCA	11398	UGAUGAAA CUGAUGAG	GCCGUUAGGC	CGAA	IACCCUCG	29773
7538	3492	GUCUUUUC A UCAUGUCU	11399	AGACAUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAAAAGAC	29774
7541	3489	UUUUAUC A UGUCUCUG	11400	CAGAGACA CUGAUGAG	GCCGUUAGGC	CGAA	IAUGAAAA	29775
7546	3484	AUCAUGUC U CUGUGGUC	11401	GACCACAG CUGAUGAG	GCCGUUAGGC	CGAA	IACAUGAU	29776
7548	3482	CAUGUCUC U GUGGUCUG	11402	CAGACCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGACAUG	29777
7555	3475	CUGUGGUC U GAUCUCCA	11403	UGGAGAUC CUGAUGAG	GCCGUUAGGC	CGAA	IACCACAG	29778
7560	3470	GUCUGAUC U CCAUACCA	11404	UGGUAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAUCAGAC	29779
7562	3468	CUGAUCUC C AUACCAUA	11405	UAUGGUAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUCAG	29780
7563	3467	UGAUCUCC A UACCAUAC	11406	GUUUGUAU CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAUCA	29781
7567	3463	CUCCAUA C AUACCAAC	11407	GUUGGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGGAG	29782
7568	3462	UCCAUAAC A UACCAACA	11408	UGUUGGUA CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGGUA	29783
7572	3458	UACCAUAC C AACAGCCG	11409	CGGCGUUA CUGAUGAG	GCCGUUAGGC	CGAA	IUAUGGUA	29784
7573	3457	ACCAUAAC A ACAGCCGC	11410	GCGGCUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGUAUGGU	29785
7576	3454	AUACCAAC A GCGCUGU	11411	ACAGCGGC CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGUUA	29786
7579	3451	CCAACAGC C GCUGUCAG	11412	CUGACAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUUGG	29787
7582	3448	ACAGCCGC U GUCAGUUU	11413	AAACUGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGCGUGU	29788
7586	3444	CCGCUGUC A GUUUGGUA	11414	UACCAAAC CUGAUGAG	GCCGUUAGGC	CGAA	IACAGCGG	29789
7599	3431	GGUAGCGC A GUGGUGGU	11415	ACCACCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGCUACC	29790
7615	3415	UAAGGUGC A GCUCUGC	11416	GCAGGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICACCUUA	29791
7618	3412	GGUGCAGC U CCUGCAGC	11417	GCUGCAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUCGACCC	29792
7620	3410	UGCAGCUC C UGCAGCAC	11418	GUGCUGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUGCA	29793
7621	3409	GCAGCUCC U GCAGCACC	11419	GGUGCUGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAGCUGC	29794
7624	3406	GCUCUGC A GCACCAU	11420	AUUGGUGC CUGAUGAG	GCCGUUAGGC	CGAA	ICAGGAGC	29795
7627	3403	CCUGCAGC A CCAUCUG	11421	CAGAUUGG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCAGG	29796
7629	3401	UGCAGCAC C AAUCUGUU	11422	AACAGAUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUGCA	29797
7630	3400	GCAGCACC A AUCUGUUA	11423	UAACAGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGUGCUGC	29798
7634	3396	CACCAAUC U GUUAUCAA	11424	UUGAUAA CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGUG	29799
7641	3389	CUGUUAUC A ACUUUCCG	11425	CGGAAAGU CUGAUGAG	GCCGUUAGGC	CGAA	IAUAACAG	29800
7644	3386	UUAUAAAC U UUCCGCUC	11426	GAGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAUAA	29801
7648	3382	CAACUUUC C GCUCUCUG	11427	CAGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAAGUUG	29802
7651	3379	CUUUCGCG U CUCUGUGG	11428	CCACAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICGGAAAG	29803
7653	3377	UUCGCGUC U CUGUGGUG	11429	CACCACAG CUGAUGAG	GCCGUUAGGC	CGAA	IAGCGGAA	29804
7655	3375	CCGCUCUC U GUGGUGGU	11430	ACCACCAC CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGCGG	29805
7673	3357	CGAGUGGC A GGUCCACG	11431	CGUGGACC CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUCUC	29806
7678	3352	GGCAGGUC C ACGGUGUC	11432	GACACCGU CUGAUGAG	GCCGUUAGGC	CGAA	IACCUGCC	29807
7679	3351	CGAGGUGC A CGGUGUCC	11433	GGACACCG CUGAUGAG	GCCGUUAGGC	CGAA	IGACCUGC	29808
7687	3343	ACGGUGUC C GCAGCUCU	11434	AGAGCUGC CUGAUGAG	GCCGUUAGGC	CGAA	IACACCGU	29809
7690	3340	GUGUCCGC A GCUCUCAC	11435	GUGAGAGC CUGAUGAG	GCCGUUAGGC	CGAA	ICGGACAC	29810
7693	3337	UCCGCAGC U CUCACUCA	11436	UGAGUGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGCGGA	29811
7695	3335	CGCAGCUC U CACUCAGG	11437	CCUGAGUG CUGAUGAG	GCCGUUAGGC	CGAA	IAGCUGCG	29812
7697	3333	CAGCUCUC A CUCAGGGU	11438	ACCCUGAG CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGCUG	29813
7699	3331	GCUCUCAC U CAGGGUGA	11439	UCACCCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAGAGC	29814
7701	3329	UCUCACUC A GGGUGACC	11440	GGUCACCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGUGAGA	29815
7709	3321	AGGGUGAC C GUAGUCC	11441	GGAACUAC CUGAUGAG	GCCGUUAGGC	CGAA	IUCACCCU	29816
7717	3313	CGUAGUUC C UGGGCAGU	11442	ACUGCCCA CUGAUGAG	GCCGUUAGGC	CGAA	IAACUACG	29817
7718	3312	GUAGUUC C UGGGAGUA	11443	UACUGCCC CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUAC	29818
7723	3307	UCCUGGGC A GUAAUCGA	11444	UCGAUUAC CUGAUGAG	GCCGUUAGGC	CGAA	ICCCAGGA	29819
7736	3294	UCGAAGUC A AUCUCUAC	11445	GUAGAGAU CUGAUGAG	GCCGUUAGGC	CGAA	IACUUCGA	29820
7740	3290	AGUCAAU C UACCCGG	11446	CCGGGUAG CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGACU	29821
7742	3288	UCAAUUC U ACCCGGCC	11447	GGCCGGGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAUUGA	29822
7745	3285	AUCUCUAC C CGGCCUUC	11448	GAAGGCCG CUGAUGAG	GCCGUUAGGC	CGAA	IUAGAGAU	29823
7746	3284	UCUCUACC C GGCCUUC	11449	CGAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGUAGAGA	29824
7750	3280	UAACCGGC C UUCGUCCC	11450	GGGACGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGGUA	29825
7751	3279	ACCGGGCC U UCGUCCCA	11451	UGGACGCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGGGU	29826
7757	3273	CCUUCGUC C CAUGGGCC	11452	GGCCCAUG CUGAUGAG	GCCGUUAGGC	CGAA	IACGAAGG	29827
7758	3272	CUUCGUCC C AUGGGCCC	11453	GGGCCCAU CUGAUGAG	GCCGUUAGGC	CGAA	IGACGAAG	29828
7759	3271	UUCGUCCC A UGGGCCU	11454	AGGGCCCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGACGAA	29829
7765	3265	CAUGGGGC C CUGGUUUU	11455	AAAACCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAUGG	29830
7766	3264	CAUGGGCC C UGGUUUG	11456	CAAAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCCAUG	29831
7767	3263	AUGGGCCC U GGUUUUGU	11457	ACAAAACC CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCCAU	29832
7779	3251	UUUGUGUC U UGUACCCA	11458	UGGUUACA CUGAUGAG	GCCGUUAGGC	CGAA	IACACAAA	29833

7785	3245	UCUUGUAC C CAGGUCUC	11459	GAGACCUG CUGAUGAG	GCCGUUAGGC	CGAA IUACAAGA	29834
7786	3244	CUUGUACC C AGGUCUC	11460	GGAGACCU CUGAUGAG	GCCGUUAGGC	CGAA IGUACAAG	29835
7787	3243	UUGUACCC A GGUCUCCG	11461	CGGAGACC CUGAUGAG	GCCGUUAGGC	CGAA IGGUACAA	29836
7792	3238	CCCAGGUC U CCGAUUGU	11462	ACAAUCGG CUGAUGAG	GCCGUUAGGC	CGAA IACCUGGG	29837
7794	3236	CAGGUCUC C GAUUGUGA	11463	UCACAAUC CUGAUGAG	GCCGUUAGGC	CGAA IAGACCUG	29838
7807	3223	GUGAUUGC U UCGUGGUC	11464	GACCACGA CUGAUGAG	GCCGUUAGGC	CGAA ICAAUCAC	29839
7816	3214	UCGUGGUC C CGCCAGUG	11465	CACUGGCG CUGAUGAG	GCCGUUAGGC	CGAA IACCACGA	29840
7817	3213	CGUGGUCC C GCCAGUGU	11466	ACACUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGACCACG	29841
7820	3210	GGUCCCGC C AGUGUGAC	11467	GUCACACU CUGAUGAG	GCCGUUAGGC	CGAA ICGGGACC	29842
7821	3209	GUCCCGCC A GUGUGACU	11468	AGUCACAC CUGAUGAG	GCCGUUAGGC	CGAA IGCGGGAC	29843
7829	3201	AGUGUGAC U GGUAUUAU	11469	AUAAUACC CUGAUGAG	GCCGUUAGGC	CGAA IUCACACU	29844
7839	3191	GUAAUUAU A AGUCACUC	11470	GAGUGACU CUGAUGAG	GCCGUUAGGC	CGAA IAUAAUAC	29845
7844	3186	AUCAAGUC A CUCUCAAG	11471	CUUGAGAG CUGAUGAG	GCCGUUAGGC	CGAA IACUUGAU	29846
7846	3184	CAAGUCAC U CUCAAGGA	11472	UCCUUGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGACUUG	29847
7848	3182	AGUCACUC U CAAGGAUU	11473	AAUCCUUG CUGAUGAG	GCCGUUAGGC	CGAA IAGUGACU	29848
7850	3180	UCACUCUC A AGGAUUC	11474	GGAUCCU CUGAUGAG	GCCGUUAGGC	CGAA IAGAGUGA	29849
7858	3172	AAGGAUUC C AUCGCCCC	11475	GGGGCGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAUCCUU	29850
7859	3171	AGGAUUC A UCGCCCA	11476	UGGGCGCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCCU	29851
7864	3166	UCCAUCGC C CCACAAGG	11477	CCUUGUGG CUGAUGAG	GCCGUUAGGC	CGAA ICGAUGGA	29852
7865	3165	CCAUCGCC C CACAAGGU	11478	ACCUUGUG CUGAUGAG	GCCGUUAGGC	CGAA IGCGAUGG	29853
7866	3164	CAUCGCC C ACAAGGUA	11479	UACCUUGU CUGAUGAG	GCCGUUAGGC	CGAA IGGCGAUG	29854
7867	3163	AUCGCC C CAAGGUAU	11480	AUACCUUG CUGAUGAG	GCCGUUAGGC	CGAA IUGGGCGAU	29855
7869	3161	CGCCCCAC A AGGUAGC	11481	GCAUACCU CUGAUGAG	GCCGUUAGGC	CGAA IUGGGCGG	29856
7881	3149	UAUGCGUC U CAGGCCAC	11482	GUGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IACGCAUA	29857
7883	3147	UGCUCUC A GGCCACGU	11483	ACGUGGCC CUGAUGAG	GCCGUUAGGC	CGAA IAGACGCA	29858
7887	3143	UCUCAGGC C ACGUACAU	11484	AUGUACGU CUGAUGAG	GCCGUUAGGC	CGAA ICCUGAGA	29859
7888	3142	CUCAGGCC A CGUACAUG	11485	CAUGUACG CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGAG	29860
7894	3136	CCACGUAC A UGAUUGA	11486	UCAAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IUACGUGG	29861
7904	3126	GAUUGAC U UCACCCAG	11487	CUGGGUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAAUUC	29862
7907	3123	UUGACUUC A CCCAGAAC	11488	GUUCUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGUCA	29863
7909	3121	GACUUCAC C CAGAACUG	11489	CAGUUCUG CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGUC	29864
7910	3120	ACUUCACC C AGAACUGC	11490	GCAGUUCU CUGAUGAG	GCCGUUAGGC	CGAA IGUGAAGU	29865
7911	3119	CUUCACCC A GAACUGCC	11491	GGCAGUUC CUGAUGAG	GCCGUUAGGC	CGAA IGGUGAAG	29866
7916	3114	CCCAGAAC U GCCCUUUC	11492	GAAAGGGC CUGAUGAG	GCCGUUAGGC	CGAA IUUCUGGG	29867
7919	3111	AGAACUGC C CUUACAAG	11493	CUUGAAAG CUGAUGAG	GCCGUUAGGC	CGAA ICAGUUCU	29868
7920	3110	GAACUGCC C UUUCAAGC	11494	GCUUGAAA CUGAUGAG	GCCGUUAGGC	CGAA IGCAGUUC	29869
7921	3109	AACUGCCC U UUCAAGCU	11495	AGCUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGUU	29870
7925	3105	GCCCUUUC A AGCUUCC	11496	UGGAAGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGGGC	29871
7929	3101	UUUCAAGC U UCCACGUA	11497	UACGUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAAA	29872
7932	3098	CAAGCUUC C ACGUAUCA	11498	UGAUACGU CUGAUGAG	GCCGUUAGGC	CGAA IACGCUUG	29873
7933	3097	AAGCUUC A CGUAUCAU	11499	AUGAUACG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCUU	29874
7940	3090	CACGUUAC A UUGAGCCU	11500	AGGCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAUACGUG	29875
7947	3083	CAUUGAGC C UGCUUCA	11501	UGAAAGCA CUGAUGAG	GCCGUUAGGC	CGAA ICUCAAUG	29876
7948	3082	AUUGAGCC U GCUUCA	11502	UUGAAAGC CUGAUGAG	GCCGUUAGGC	CGAA IGCUCAAU	29877
7951	3079	GAGCCUGC U UUCAAUCC	11503	GGAUUGAA CUGAUGAG	GCCGUUAGGC	CGAA ICAGGCUC	29878
7955	3075	CUGCUUUC A AUCCAAUA	11504	UAUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCAG	29879
7959	3071	UUUCAUUC C AAUAGGAC	11505	GUCCUAU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGAAA	29880
7960	3070	UUCAAUCC A AUAGGACA	11506	UGUCCUAU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGAA	29881
7968	3062	AAUAGGAC A GGUCACUG	11507	CAGUGACC CUGAUGAG	GCCGUUAGGC	CGAA IUCCUAU	29882
7973	3057	GACAGGUC A CUGUGGAU	11508	AUCCACAG CUGAUGAG	GCCGUUAGGC	CGAA IACCUGUC	29883
7975	3055	CAGGUCAC U GUGGAUCG	11509	CGAUCCAC CUGAUGAG	GCCGUUAGGC	CGAA IUGACCUG	29884
7985	3045	UGGAUCGC C AAGUUGUU	11510	AACAACUU CUGAUGAG	GCCGUUAGGC	CGAA ICGAUCCA	29885
7986	3044	GGAUCGCC A AGUUGUUC	11511	GAACAACU CUGAUGAG	GCCGUUAGGC	CGAA IGCGAUCC	29886
7995	3035	AGUUGUUC U UGACAGCC	11512	GGCUGUCA CUGAUGAG	GCCGUUAGGC	CGAA IAAACAACU	29887
8000	3030	UUCUUGAC A GCCGUUCC	11513	GGAACGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAAGAA	29888
8003	3027	UUGACAGC C GUUCCAAU	11514	AUUGGAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCAA	29889
8008	3022	AGCCGUUC C AAUGAUCU	11515	AGAUAU CUGAUGAG	GCCGUUAGGC	CGAA IACGCGCU	29890
8009	3021	GCCGUUCC A AUGAUUCU	11516	AAGAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IGAACGGC	29891
8016	3014	CAAUGAUC U UCGAGUCA	11517	UGACUCGA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUUG	29892
8024	3006	UUCGAGUC A CAUUCAGU	11518	ACUGAAUG CUGAUGAG	GCCGUUAGGC	CGAA IACUCGAA	29893
8026	3004	CGAGUCAC A UUCAGUUG	11519	CAACUGAA CUGAUGAG	GCCGUUAGGC	CGAA IUGACUCG	29894

Table IX

8030	3000	UCACAUUC A GUUGUGUU	11520	AACACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUGA	29895
8041	2989	UGUGUUGC U CUCUCUGA	11521	UCAGAGAG CUGAUGAG	GCCGUUAGGC	CGAA ICAACACA	29896
8043	2987	UGUUGCUC U CUCUGACC	11522	GGUCAGAG CUGAUGAG	GCCGUUAGGC	CGAA IAGCAACA	29897
8045	2985	UUGCUCUC U CUGACCUU	11523	AAGGUCAG CUGAUGAG	GCCGUUAGGC	CGAA IAGAGCAA	29898
8047	2983	GCUCUCUC U GACCUUCA	11524	UGAAGGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGAGAGC	29899
8051	2979	UCUCUGAC C UUCAGGAA	11525	UUCUCUGA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGAGA	29900
8052	2978	CUCUGACC U UCAGGAAC	11526	GUUCCUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCAGAG	29901
8055	2975	UGACCUUC A GGAACAUC	11527	GAUGUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAGGUCA	29902
8061	2969	UCAGGAAC A UCCGAGUG	11528	CACUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUUCCUGA	29903
8064	2966	GGAACAUC C GAGUGCUG	11529	CAGCACUC CUGAUGAG	GCCGUUAGGC	CGAA IAUGUUCG	29904
8071	2959	CCGAGUGC U GGUGAGAC	11530	GUCUCACC CUGAUGAG	GCCGUUAGGC	CGAA ICACUCGG	29905
8080	2950	GGUGAGAC C AAAUCCAA	11531	UUGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IUCUCCAC	29906
8081	2949	GUGAGACC A AAUCCAAA	11532	UUUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA IGUCUCAC	29907
8086	2944	ACCAAUUC C AAAAUCCU	11533	AGGAUUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUUGGU	29908
8087	2943	CCAAAUCC A AAAUCCUC	11534	GAGGAUUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUGG	29909
8093	2937	CCAAAUUC C UCCACUUC	11535	GAAGUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUUUUGG	29910
8094	2936	CAAAAUCC U CCACUUCU	11536	AGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGAUUUUG	29911
8096	2934	AAAUCCUC C ACUUCUAA	11537	UUAGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAUTU	29912
8097	2933	AAUCCUCC A CUUCUAAG	11538	CUUAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGGAUT	29913
8099	2931	UCCUCCAC U UCUAAGCU	11539	AGCUUAGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGGA	29914
8102	2928	UCCACUUC U AAGCUAUU	11540	AAUAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IUAUGUGA	29915
8107	2923	UUUAAGC U AUUCCAAG	11541	CUUGGAUU CUGAUGAG	GCCGUUAGGC	CGAA ICUUAGAA	29916
8112	2918	AGCUAUUC C AAGCGCGA	11542	UCGCGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAUAGCU	29917
8113	2917	GCUAUUC C AAGCGCGA	11543	AUCGCGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUAGCU	29918
8124	2906	CGCGAUUC U GAGUCGGA	11544	UCCGACUC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCGCG	29919
8134	2896	AGUCGGAC A UUCUUGG	11545	CCAAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGACU	29920
8138	2892	GGACAUUC C UUGGUCUC	11546	GAGACCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUCC	29921
8139	2891	GACAUUC C UUGGUCUC	11547	GGAGACCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUUGUC	29922
8145	2885	CCUUGGUC U CCGGACCA	11548	UGGUCCGG CUGAUGAG	GCCGUUAGGC	CGAA IACCAAGG	29923
8147	2883	UUGGUCUC C GGACCAUC	11549	GAUGUCC CUGAUGAG	GCCGUUAGGC	CGAA IAGACCAA	29924
8152	2878	CUCCGGAC C AUCAACCA	11550	UGGUUGAU CUGAUGAG	GCCGUUAGGC	CGAA IUCCGGAG	29925
8153	2877	UCCGGACC A UCAACCAC	11551	GUGGUUGA CUGAUGAG	GCCGUUAGGC	CGAA IGUCCGGA	29926
8156	2874	GGACCAUC A ACCACAAA	11552	UUUGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGUCC	29927
8159	2871	CCAUCAAC C ACAAGGU	11553	ACCUUUGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAUGG	29928
8160	2870	CAUCAACC A CAAAGGUG	11554	CACCUUUG CUGAUGAG	GCCGUUAGGC	CGAA IGUGAUG	29929
8162	2868	UCAACCAC A AAGGUGUU	11555	AACACCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGGUUGA	29930
8183	2847	GCGAGUUC U GGUGCAA	11556	UUUGCACC CUGAUGAG	GCCGUUAGGC	CGAA IAACUCGC	29931
8189	2841	UCUGGUGC A AAUAAAU	11557	AUUUUAUU CUGAUGAG	GCCGUUAGGC	CGAA ICACCAGA	29932
8200	2830	UAAAUUAC U CUUCCCC	11558	GGGGAAG CUGAUGAG	GCCGUUAGGC	CGAA IUAUUUA	29933
8202	2828	AAAUACUC U UUUCCCC	11559	CUGGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUAUUU	29934
8206	2824	ACUCUUUC C CCAGGCCU	11560	AGGCCUGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGAGU	29935
8207	2823	CUCUUUC C CAGGCCUU	11561	AAGGCCUG CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAG	29936
8208	2822	UCUUUCCC C AGGCCUUC	11562	GAAGGCCU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGA	29937
8209	2821	CUUCCCC A GGCCUUC	11563	GGAAGGCC CUGAUGAG	GCCGUUAGGC	CGAA IGGGAAAG	29938
8213	2817	CCCCAGGC C UUCAGCC	11564	GGCUGGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUGGGG	29939
8214	2816	CCCAGGCC U UCCAGCCA	11565	UGGCUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUGGG	29940
8217	2813	AGCCUUC C AGCCAAUU	11566	AAUUGGCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGCCU	29941
8218	2812	GGCCUUC A GCCAAUUU	11567	AAAUUGGC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGGCC	29942
8221	2809	CUUCCAGC C AAUUCUCC	11568	UGGAAAUU CUGAUGAG	GCCGUUAGGC	CGAA ICUGGAAG	29943
8222	2808	UUCAGGCC A AUUCCAA	11569	UUGGAAAU CUGAUGAG	GCCGUUAGGC	CGAA IGCUUGAA	29944
8228	2802	CCAAUUC C AAUUUUUC	11570	GAAAAAUU CUGAUGAG	GCCGUUAGGC	CGAA IAAAUUGG	29945
8229	2801	CAAUUUC A AUUUUUC	11571	GGAAAAAU CUGAUGAG	GCCGUUAGGC	CGAA IGAAAUUG	29946
8237	2793	AAUUUUUC C GUGGUGGC	11572	GCCACCAC CUGAUGAG	GCCGUUAGGC	CGAA IAAAAUUU	29947
8264	2766	UUAGGUGC U GACUUGUA	11573	UACAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICACCUAA	29948
8268	2762	GUGCUGAC U UGUACAUU	11574	AAUGUACA CUGAUGAG	GCCGUUAGGC	CGAA IUCAGCAC	29949
8274	2756	ACUUGUAC A UUCCUCC	11575	GGAGGGAA CUGAUGAG	GCCGUUAGGC	CGAA IUACAAGU	29950
8278	2752	GUACAUUC C CUCCUGUU	11576	AACAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGUAC	29951
8279	2751	UACAUUC C UCCUGUUU	11577	AAACAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAAUGUA	29952
8280	2750	ACAUUCCC U CCUGUUUC	11578	GAAACAGG CUGAUGAG	GCCGUUAGGC	CGAA IGGAAUGU	29953
8282	2748	AUCCCCUC C UGUUUCUC	11579	GAGAAACA CUGAUGAG	GCCGUUAGGC	CGAA IAGGGAU	29954
8283	2747	UCCCCUCC U GUUUCUCA	11580	UGAGAAAC CUGAUGAG	GCCGUUAGGC	CGAA IGAGGGAA	29955

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8289	2741	CCUGUUUC U CAACCACG	11581	CGUGGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAACAGG	29956
8291	2739	UGUUUCUC A ACCACGAC	11582	GUCGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IAGAAACA	29957
8294	2736	UUCUCAAC C ACGACACU	11583	AGUGUCGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGAGAA	29958
8295	2735	UCUCAACC A CGACACUA	11584	UAGUGUCG CUGAUGAG	GCCGUUAGGC	CGAA IGUGAGAA	29959
8300	2730	ACCACGAC A CUAAGGUC	11585	GACCUUAG CUGAUGAG	GCCGUUAGGC	CGAA IUCGUGGU	29960
8302	2728	CACGACAC U AAGGUCCA	11586	UGGACCUU CUGAUGAG	GCCGUUAGGC	CGAA IUGUCGUG	29961
8309	2721	CUAAGGUC C ACACCAU	11587	AAUGGUGU CUGAUGAG	GCCGUUAGGC	CGAA IACCUUAG	29962
8310	2720	UAAGGUCC A CACCAUUC	11588	GAAUGGUG CUGAUGAG	GCCGUUAGGC	CGAA IGACCUUA	29963
8312	2718	AGGUCCAC A CCAUUCUC	11589	GAGAAUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGGACCU	29964
8314	2716	GUCCACAC C AUUCUCU	11590	AGGAGAAU CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGAC	29965
8315	2715	UCCACACC A UUCUCCU	11591	AAGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGUGUGGA	29966
8319	2711	CACCAUUC U CCUCAA	11592	UUUGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IAAUGGUG	29967
8321	2709	CCAUCUC C UUCAAAAG	11593	CUUUUGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUGG	29968
8322	2708	CAUUCUC U UCAAAGA	11594	UCUUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAAUG	29969
8325	2705	UCUCCUUC A AAAGAGUG	11595	CACUCUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGA	29970
8337	2693	GAGUGUUC A GCUCGUCC	11596	GGACGAGC CUGAUGAG	GCCGUUAGGC	CGAA IAACACTUC	29971
8340	2690	UGUUCAGC U CGUCUUC	11597	GAAGGACG CUGAUGAG	GCCGUUAGGC	CGAA ICUGAACA	29972
8345	2685	AGCUCGUC C UUCACUGC	11598	GCAGUGAA CUGAUGAG	GCCGUUAGGC	CGAA IACGAGCU	29973
8346	2684	GCUCGUCC U UCACUGCU	11599	AGCAGUGA CUGAUGAG	GCCGUUAGGC	CGAA IGACGAGC	29974
8349	2681	CGUCCUUC A CUGCUUCC	11600	GGAAGCAG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGACG	29975
8351	2679	UCCUUCAC U GCUUCCCA	11601	UGGGAAGC CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGGA	29976
8354	2676	UUCACUGC U UCCACAU	11602	AUGUGGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGAA	29977
8357	2673	ACUGCUUC C CACAUIUG	11603	CAAAUGUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGU	29978
8358	2672	CUGCUUCC C ACAUUGA	11604	UCAAAUGU CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAG	29979
8359	2671	UGCUUCCC A CAUUGAU	11605	AUCAAUG CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGCA	29980
8361	2669	CUUCCAC A UUUGAUGC	11606	GCAUCAA CUGAUGAG	GCCGUUAGGC	CGAA IUGGGAAG	29981
8370	2660	UUUGAUGC U CCAGUCUG	11607	CAGACUGG CUGAUGAG	GCCGUUAGGC	CGAA ICAUCAA	29982
8372	2658	UGAUGCUC C AGUCUGGA	11608	UCCAGACU CUGAUGAG	GCCGUUAGGC	CGAA IAGCAUCA	29983
8373	2657	GAUGCUCC A GUCUGGAA	11609	UUCAGAC CUGAUGAG	GCCGUUAGGC	CGAA IGAGCAUC	29984
8377	2653	CUCCAGUC U GGAAACUG	11610	CAGUUUCC CUGAUGAG	GCCGUUAGGC	CGAA IAUUGGAG	29985
8384	2646	CUGGAAAC U GAUCGUAG	11611	CUACGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUCCAG	29986
8395	2635	UCGUAGAC C GCACACUC	11612	GAGUGUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUACGA	29987
8398	2632	UAGACCGC A CACUCCU	11613	AAGGAGUG CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCUA	29988
8400	2630	GACCGCAC A CUCCUCC	11614	GGAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUGCGGUC	29989
8402	2628	CCGCACAC U CCUCCU	11615	AAGGAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUGCGG	29990
8404	2626	GCACACUC C UUCUUAU	11616	AUAAGGAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUGC	29991
8405	2625	CACACUCC U UCCUUAUG	11617	CAUAAGGA CUGAUGAG	GCCGUUAGGC	CGAA IGAGUGUG	29992
8408	2622	ACUCCUUC C UUAUGAGC	11618	GCUCAUA CUGAUGAG	GCCGUUAGGC	CGAA IAAGGAGU	29993
8409	2621	CUCCUCC U UAUGAGCU	11619	AGCUCAUA CUGAUGAG	GCCGUUAGGC	CGAA IAGAGGAG	29994
8417	2613	UUAUGAGC U UUCUGAAU	11620	AUUCAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICUCAUA	29995
8421	2609	GAGCUUUC U GAAUGAUC	11621	GAUCAUUC CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCUC	29996
8430	2600	GAAUGAUC U UGGCUAGG	11622	CCUAGCCA CUGAUGAG	GCCGUUAGGC	CGAA IAUCAUUC	29997
8435	2595	AUCUUGGC U AGGCCUUG	11623	CAAGGCCU CUGAUGAG	GCCGUUAGGC	CGAA ICCAAGAU	29998
8440	2590	GGCUAGGC C UUGUGGCG	11624	CGCCACAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUAGCC	29999
8441	2589	GCUAGGCC U UGUGGCGU	11625	ACGCCACA CUGAUGAG	GCCGUUAGGC	CGAA IGCCUAGC	30000
8453	2577	GGCGUUUC A GGUAAUA	11626	UAUUACCC CUGAUGAG	GCCGUUAGGC	CGAA IAAACGCC	30001
8463	2567	GGUAAUAC U UGUACCGG	11627	CCGGUACA CUGAUGAG	GCCGUUAGGC	CGAA IUUAUACC	30002
8469	2561	ACUUGUAC C GGUCCAUC	11628	GAUGGACC CUGAUGAG	GCCGUUAGGC	CGAA IUACAAGU	30003
8474	2556	UACCGGUC C AUCCAAGC	11629	GCUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACCGGUA	30004
8475	2555	ACCGGUCC A UCCAAGCC	11630	GGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACCGGU	30005
8478	2552	GUCCAUC C AAGCCUCC	11631	GGAGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUUGACC	30006
8479	2551	GUCCAUC A AGCCUCCA	11632	UGGAGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAC	30007
8483	2547	AUCCAAGC C UCCACAUC	11633	GAUGUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAU	30008
8484	2546	UCCAAGCC U CCACAUC	11634	UGAUGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGCUGGA	30009
8486	2544	CAAGCCUC C ACAUCAU	11635	AAUGAUGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGCUUG	30010
8487	2543	AAGCCUCC A CAUCAUG	11636	CAUUGAUG CUGAUGAG	GCCGUUAGGC	CGAA IGAGGCUU	30011
8489	2541	GCCUCCAC A UCAUUGUG	11637	CACAAUGA CUGAUGAG	GCCGUUAGGC	CGAA IUGGAGGC	30012
8492	2538	UCCAUAUC A UUGUGUAU	11638	AUACACAA CUGAUGAG	GCCGUUAGGC	CGAA IUGUGGA	30013
8505	2525	GUAUGAAC A CUCCACU	11639	AAGUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IUUCAUAC	30014
8507	2523	AUGAACAC U CCACUUC	11640	GGAAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IUGUUAU	30015
8509	2521	GAACACUC C ACUCCAC	11641	GUGGAAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUUC	30016

8510	2520	AACACUCC A CUUCCACA	11642	UGUGGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGUGUU	30017
8512	2518	CACUCCAC U UCCACAUC	11643	GAUGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGAGUG	30018
8515	2515	UCCACUUC C ACAUCUCA	11644	UGAGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAGUGGA	30019
8516	2514	CCACUUC C CAUCUCAG	11645	CUGAGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAAGUGG	30020
8518	2512	ACUCCAC A UCUCAGCU	11646	AGCUGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGAAGU	30021
8521	2509	UCCACAUC U CAGCUCUU	11647	AAGAGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGUGGA	30022
8523	2507	CACAUCUC A GCUCUUGC	11648	GCAAGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGAUGUG	30023
8526	2504	AUCUCAGC U CUUGCCGG	11649	CCGGCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGAGAU	30024
8528	2502	CUCAGCUC U UGCCGGCU	11650	AGCCGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCUGAG	30025
8532	2498	GCUCUUGC C GGCUGAUG	11651	CAUCAGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAAGAGC	30026
8536	2494	UUGCCGGC U GAUGUCUA	11652	UAGACAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACGGCAA	30027
8543	2487	CUGAUGUC U AUGGCACA	11653	UGUGCCA U CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAUACAG	30028
8549	2481	UCUAUGGC A CACCCAGU	11654	ACUGGGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICCAUAGA	30029
8551	2479	UAUGGCAC A CCCAGUGU	11655	ACACUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGCCAUA	30030
8553	2477	UGGCACAC C CAGUGUCA	11656	UGACACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUGCCA	30031
8554	2476	GGCACACC C AGUGUCAG	11657	CUGACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUGUGCC	30032
8555	2475	GCACACCC A GUGUCAGC	11658	GCUGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGUGUGC	30033
8561	2469	CCAGUGUC A GCGUGCAC	11659	GUGCACGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACACUGG	30034
8568	2462	CAGCGUGC A CGUUCACG	11660	CGUGAACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICACGCUG	30035
8574	2456	GCACGUUC A CGGAGAGG	11661	CCUCUCCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACUGUGC	30036
8589	2441	GGAAGAGC A GAACUCCU	11662	AGGAGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCUCC	30037
8594	2436	AGCAGAAC U CCUCCAAC	11663	GUUGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCUGCU	30038
8596	2434	CAGAACUC C UCCAACUG	11664	CAGUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGUUCUG	30039
8597	2433	AGAACUCC U CCAACUGC	11665	GCAGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGUUCU	30040
8599	2431	AACUCCUC C AACUGCGA	11666	UCGAGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGAGUU	30041
8600	2430	ACUCCUCC A ACUGCGAG	11667	CUCGCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGGAGU	30042
8603	2427	CCUCCAAC U GCGAGAAA	11668	UUUCUCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGGAGG	30043
8621	2409	GUGAGAGC U AUGGACCU	11669	AGGUCCA U CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCUCAC	30044
8628	2402	CUAUGGAC C UAUACAGA	11670	UCUGGAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCCAUA	30045
8629	2401	UAUGGACC U AUCACGAG	11671	CUCGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGUCCAUA	30046
8633	2397	GACCUAUC A CGAGCAUU	11672	AAUGCUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUAGGUC	30047
8639	2391	UCACGAGC A UUGAUGCC	11673	GGCAUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCGUGA	30048
8647	2383	AUUGAUGC C CAUCCACA	11674	UGUGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAUCAAU	30049
8648	2382	UUGAUGCC C AUCCACAA	11675	UUGUGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCAUCAA	30050
8649	2381	UGAUGCCC A UCCACAAC	11676	GUUGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGCAUCA	30051
8652	2378	UGCCCAUC C ACAACAGG	11677	CCUGUUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUGGGCA	30052
8653	2377	GCCCAUCC A CAACAGGA	11678	UCCUGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAUGGGC	30053
8655	2375	CCAUCCAC A ACAGGAGA	11679	UCUCCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGGAUGG	30054
8658	2372	UCCACAAC A GGAGAGCC	11680	GGCUCUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUGUGGA	30055
8666	2364	AGGAGAGC C CCCAGCAA	11681	UUGCUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUCUCCU	30056
8667	2363	GGAGAGCC C CCAGCAAU	11682	AUUGCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCUCUCC	30057
8668	2362	GAGAGCCC C CAGCAAUC	11683	GAUUGCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGCUCUC	30058
8669	2361	AGAGCCCC C AGCAAUCC	11684	GGAUUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGUCUC	30059
8670	2360	GAGCCCCC A GCAAUCCU	11685	AGGAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGGGGUCU	30060
8673	2357	CCCCAGC A AUCCUUGC	11686	GCAAGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGGGG	30061
8677	2353	CAGCAAUC C UUGCGUUA	11687	UAAACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUUGCUG	30062
8678	2352	AGCAAUCC U UGCGUUAU	11688	AUAACGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUGUCU	30063
8688	2342	GCGUUAUC C AGGACAUG	11689	CAUGUCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUAACGC	30064
8689	2341	CGUUAUCC A GGACAUGC	11690	GCAUGUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUAACG	30065
8694	2336	UCCAGGAC A UGCCUCCG	11691	CGGAGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCCUGGA	30066
8698	2332	GGACAUGC C UCCGAACA	11692	UGUUCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAUGUCC	30067
8699	2331	GACAUGCC U CCGAACAG	11693	CUGUUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGCAUGUC	30068
8701	2329	CAUGCCUC C GAACAGUG	11694	CACUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGCAUG	30069
8706	2324	CUCCGAAC A GUGAGCGG	11695	CCGCUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCGGAG	30070
8720	2310	CGGAAUGC U CCUCGAA	11696	UUCGGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICAUCCG	30071
8722	2308	GAAUGCUC C UCCGAACA	11697	UGUUCGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCAUUC	30072
8723	2307	AAUGCUC U CCGAACAC	11698	GUGUUCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAGCAUU	30073
8725	2305	UGCUCUC C GAACACUU	11699	AAGUGUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGAGCA	30074
8730	2300	CUCCGAAC A CUUGAUGG	11700	CCAUCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUCGGAG	30075
8732	2298	CCGAACAC U UGAUGGAC	11701	GUCCAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUCGG	30076
8741	2289	UGAUGGAC A GCCUCCCC	11702	GGGAAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCCAUCA	30077

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8744	2286	UGGACAGC C UUCCCAAC	11703	GUUGGGAA CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCCA	30078
8745	2285	GGACAGCC U UCCCAACU	11704	AGUUGGGA CUGAUGAG	GCCGUUAGGC	CGAA IGCUGUCC	30079
8748	2282	CAGCCUUC C CAACUGAG	11705	CUCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IAAGGCUG	30080
8749	2281	AGCCUUCC C AACUGAGG	11706	CCUCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IAAGGCUC	30081
8750	2280	GCCUCCCC A ACUGAGGU	11707	ACCUCAGU CUGAUGAG	GCCGUUAGGC	CGAA IGGAAGGC	30082
8753	2277	UUCCCAAC U GAGGUGAA	11708	UUCACCUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGGAA	30083
8763	2267	AGGUGAAC A CCCUCCA	11709	UGGAGGGG CUGAUGAG	GCCGUUAGGC	CGAA IUUCACCU	30084
8765	2265	GUGAACAC C CCUCCAAC	11710	GUUGGAGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCCAC	30085
8766	2264	UGAACACC C CUCCAACU	11711	AGUUGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGUCCA	30086
8767	2263	GAACACCC C UCCAACUG	11712	CAGUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUUC	30087
8768	2262	AACACCCC U CCAACUGA	11713	UCAGUUG CUGAUGAG	GCCGUUAGGC	CGAA IGGUGUUG	30088
8770	2260	CACCCUCC C AACUGAUC	11714	GAUCAGUU CUGAUGAG	GCCGUUAGGC	CGAA IAGGGGUG	30089
8771	2259	ACCCCUCC A ACUGAUCC	11715	GGAUACAGU CUGAUGAG	GCCGUUAGGC	CGAA IAGGGGUU	30090
8774	2256	CCUCCAAC U GAUCCAA	11716	UUUGGAUC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGAGG	30091
8779	2251	AACUGAUC C AAAGUCCC	11717	GGGACUUU CUGAUGAG	GCCGUUAGGC	CGAA IAUCAGUU	30092
8780	2250	ACUGAUCC A AAGUCCCA	11718	UGGGACUU CUGAUGAG	GCCGUUAGGC	CGAA IGAUCAGU	30093
8786	2244	CCAAAGUC C CAAGCUGU	11719	ACAGCUUG CUGAUGAG	GCCGUUAGGC	CGAA IACUUUGG	30094
8787	2243	CAAAGUCC C AAGCUGUG	11720	CACAGCUU CUGAUGAG	GCCGUUAGGC	CGAA IGACUUUG	30095
8788	2242	AAAGUCCC A AGCUGUGU	11721	ACACAGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGACUUU	30096
8792	2238	UCCCAAGC U GUGUCUCC	11722	GGAGACAC CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGGA	30097
8798	2232	GCUGUGUC U CCUAGAGC	11723	CCUCUAGG CUGAUGAG	GCCGUUAGGC	CGAA IACACAGC	30098
8800	2230	UGUGUCUC C UAGAGCGG	11724	GCGUCUA CUGAUGAG	GCCGUUAGGC	CGAA IAGACACA	30099
8801	2229	GUGUCUCC U AGAGCGGC	11725	GCCGUCUC CUGAUGAG	GCCGUUAGGC	CGAA IGAGACAC	30100
8810	2220	AGAGCGGC U AGUCUCUG	11726	CAGAGACU CUGAUGAG	GCCGUUAGGC	CGAA ICCGUCUC	30101
8815	2215	GGCUAGUC U CUGCGCUC	11727	GAGCGCAG CUGAUGAG	GCCGUUAGGC	CGAA IACTUAGCC	30102
8817	2213	CUAGUCUC U GCGUCCU	11728	AGGAGCGC CUGAUGAG	GCCGUUAGGC	CGAA IAGACUAG	30103
8822	2208	CUCUGCGC U CCUUGAG	11729	CUCAAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGCAGAG	30104
8824	2206	CUGCGCUC C UUUUGAGG	11730	CCCUCAAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCAG	30105
8825	2205	UGCGCUC C UUGAGGGU	11731	ACCCUCAA CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCA	30106
8846	2184	GUAAGGC U UUGCCAAU	11732	AUUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA ICCUUUAC	30107
8851	2179	GGCUUUGC C AAUGCUGC	11733	AGGCAUU CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGCC	30108
8852	2178	GCUUUGCC A AUGCUGCU	11734	AGCAGCAU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAGC	30109
8857	2173	GCCAAUGC U GCUUCCAG	11735	CUGGAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGGC	30110
8860	2170	AAUGCUGC U UCCAGACU	11736	AGUCUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAGCAUU	30111
8863	2167	GCUGCUUC C AGACUUGU	11737	ACAAGUCU CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAGC	30112
8864	2166	CUGCUUCC A GACUUGUG	11738	CACAAGUC CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAG	30113
8868	2162	UUCACAGC U UGUGCCAA	11739	UUGGCACA CUGAUGAG	GCCGUUAGGC	CGAA IUCUGGAA	30114
8874	2156	ACUUGUGC C AAUGGUGA	11740	UACCAUU CUGAUGAG	GCCGUUAGGC	CGAA ICACAAGU	30115
8875	2155	CUUGUGCC A AUGGUGAU	11741	AUCACCAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGCAG	30116
8889	2141	GAUUGAUC U GUUGUUCU	11742	AGAACAAC CUGAUGAG	GCCGUUAGGC	CGAA IAUCAAUC	30117
8897	2133	UGUUGUUC U CCUCUGCC	11743	GGCAGAGG CUGAUGAG	GCCGUUAGGC	CGAA IAACAACA	30118
8899	2131	UUGUUCUC C UCUGCCCA	11744	UGGGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IAGAACAA	30119
8900	2130	UGUUCUCC U CUGCCAC	11745	GUGGGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGAGAACA	30120
8902	2128	UUCUCCUC U GCCCACCA	11746	UGGUGGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGAGAA	30121
8905	2125	UCCUCUGC C CACCACUA	11747	UAGUGGUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGGA	30122
8906	2124	CCUCUGCC C ACCACUUA	11748	AUAGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAGG	30123
8907	2123	CUCUGCCC A CCACUAG	11749	CAUAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGGCAGAG	30124
8909	2121	CUGCCAC C ACUAUGUA	11750	UACAUAGU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGCAG	30125
8910	2120	UGCCACC A CUAUGUAU	11751	AUACAUAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGGCA	30126
8912	2118	CCCACCAC U AUGUAUGA	11752	UCAUACAU CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGG	30127
8924	2106	UAUGAGUC U CCAAAGGG	11753	CCCUUUGG CUGAUGAG	GCCGUUAGGC	CGAA IACUCAUA	30128
8926	2104	UGAGUCUC C AAAGGGUG	11754	CACCCUUU CUGAUGAG	GCCGUUAGGC	CGAA IAGACUCA	30129
8927	2103	GAGUCUCC A AAGGGUGG	11755	CCACCCUU CUGAUGAG	GCCGUUAGGC	CGAA IGAGACUC	30130
8939	2091	GGUGGUUC C AAUUCAAU	11756	AUUGAAUU CUGAUGAG	GCCGUUAGGC	CGAA IAACCACC	30131
8940	2090	GUGGUUCC A AUUCAUUC	11757	GAUUGAAU CUGAUGAG	GCCGUUAGGC	CGAA IGAACCAC	30132
8945	2085	UCCAATUC A AUCAGGAC	11758	GUUCUGAU CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGGA	30133
8949	2081	AUUCAAUC A GGACCUUA	11759	UAAGGUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAUUGAAU	30134
8954	2076	AUCAGGAC C UUAGCGUU	11760	AACGCUAA CUGAUGAG	GCCGUUAGGC	CGAA IUCCUGAU	30135
8955	2075	UCAGGACC U UAGCGUUG	11761	CAACGCUA CUGAUGAG	GCCGUUAGGC	CGAA IGUCUUGA	30136
8966	2064	GCGUUGGC C GUGGCCAC	11762	GUGGCCAC CUGAUGAG	GCCGUUAGGC	CGAA ICCAACGC	30137
8972	2058	GCCGUGGC C ACUGAAAC	11763	GUUUCAGU CUGAUGAG	GCCGUUAGGC	CGAA ICCACGGC	30138

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8973	2057	CCGUGGCC A CUGAAACA	11764	UGUUUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCACGG	30139
8975	2055	GUGGCCAC U GAAACAAA	11765	UUUGUUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCCAC	30140
8981	2049	ACUGAAAC A AAAGGGUU	11766	AACCCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCAGU	30141
8993	2037	GGGUUGAC A GUGACCAA	11767	UUGGUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAACCC	30142
8999	2031	ACAGUGAC C AAUCUGCC	11768	GGCAGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCACUGU	30143
9000	2030	CAGUGACC A AUCUGCCC	11769	GGGCAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCACUG	30144
9004	2026	GACCAAUC U GCCCACUG	11770	CAGUGGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGUC	30145
9007	2023	CAAUCUGC C CACUGGCG	11771	CGCCAGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAUUG	30146
9008	2022	AAUCUGCC C ACUGGCGU	11772	ACGCCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGAUU	30147
9009	2021	AUCUGCCC A CUGGCGUU	11773	AACGCCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCAGAU	30148
9011	2019	CUGCCCAC U GGCUGUAG	11774	CUAACGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGCAG	30149
9027	2003	GGUCGUUC A AUGAAGCC	11775	GGCUUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACGACC	30150
9035	1995	AAUGAAGC C ACUGACGA	11776	UCGUCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCAUU	30151
9036	1994	AUGAAGCC A CUGACGAG	11777	CUCGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUUCAU	30152
9038	1992	GAAGCCAC U GACGAGAU	11778	AUCUCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCUUC	30153
9053	1977	AUAGGAAC U UUGCAAGG	11779	CCUUGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCCUAU	30154
9058	1972	AACUUUGC A AGGUCCAU	11780	AUGGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAAGUU	30155
9064	1966	GCAAGGUC C AUCCGUGC	11781	GCACGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUGC	30156
9065	1965	CAAGGUCC A UCCGUGCC	11782	GGCACGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACUUG	30157
9068	1962	GGUCCAU C GUGCCAGU	11783	ACUGGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGACC	30158
9073	1957	AUCCGUGC C AGUGUACU	11784	AGUACACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACGGAU	30159
9074	1956	UCCGUGCC A GUGUACUG	11785	CAGUACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCACGGA	30160
9081	1949	CAGUGUAC U GCAAUUCC	11786	GGAAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACACUG	30161
9084	1946	UGUACUGC A AUUCCAAC	11787	GUUGGAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUACA	30162
9089	1941	UGCAAUUC C AACACCAC	11788	GUGGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUGCA	30163
9090	1940	GCAAUUC C ACACCACA	11789	UGUGGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGC	30164
9093	1937	AUUCCAAC A CCACAGUG	11790	CACUGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAAU	30165
9095	1935	UCCAACAC C ACAGUGCC	11791	GGCACUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUGGA	30166
9096	1934	CCAACACC A CAGUGCCG	11792	CGGCACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGUUGG	30167
9098	1932	AACACCAC A GUGCCGUG	11793	CACGGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUGUU	30168
9103	1927	CACAGUGC C GUGACCTUG	11794	CAGGUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICACUGUG	30169
9109	1921	GCCGUGAC C UGUGUCUG	11795	CAGACACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCACGGC	30170
9110	1920	CCGUGACC U GUGUCUGC	11796	GCAGACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCACGG	30171
9116	1914	CCUGUGUC U GCGGGAGU	11797	ACUCCCGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACAGG	30172
9126	1904	CGGGAGUC C CAAGAAAC	11798	GUUUCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUCCCG	30173
9127	1903	GGGAGUCC C AAGAAACU	11799	AGUUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACUCC	30174
9128	1902	GGAGUCCC A AGAAACUU	11800	AAGUUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACUCC	30175
9135	1895	CAAGAAAC U UGAAAGCC	11801	GGCUUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUCUUG	30176
9143	1887	UUGAAAGC C UUUGAACA	11802	UGUUCAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICTUUCAA	30177
9144	1886	UGAAAGCC U UUGAACAG	11803	CUGUUCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUUUCA	30178
9151	1879	CUUUGAAC A GACGCCAU	11804	AUGGCGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAAG	30179
9157	1873	ACAGACGC C AUAGGUUG	11805	CAACCUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUCUGU	30180
9158	1872	CAGACGCC A UAGGUUGU	11806	ACAACCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCUGU	30181
9169	1861	GGUUGUUC C CUUCAACU	11807	AGUUGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAACC	30182
9170	1860	GUUGUUC C UUCAACUG	11808	CAGUUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACAAC	30183
9171	1859	UUGUUC C UUCAACUGC	11809	GCAGUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACAA	30184
9174	1856	UUCCCUUC A ACUGCAAU	11810	AUUGCAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGGAA	30185
9177	1853	CCUUC AAC U GCAAUUUU	11811	AAA AUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGAAGG	30186
9180	1850	UCAACUGC A AUUUUUC	11812	GGAAAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUUGA	30187
9188	1842	AAUUUUUC C AUCUUCAC	11813	GUGAAGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAAUU	30188
9189	1841	AUUUUUUC A UCUUCACU	11814	AGUGAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAAAU	30189
9192	1838	UUUCCAU C UACUCUA	11815	UAGAGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGGAAA	30190
9195	1835	CCAUCUUC A CUCUACAC	11816	GUGUAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGAUGG	30191
9197	1833	AUCUUCAC U CUACAUU	11817	AAGUGUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAGAU	30192
9199	1831	CUUCACUC U ACACUUA	11818	UGAAGUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGAAG	30193
9202	1828	CACUCUAC A CUUCAAU	11819	AUUUGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAGAGUG	30194
9204	1826	CUCUACAC U UCAAAUGA	11820	UCAUUUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUAGAG	30195
9207	1823	UACACUUC A AAUGACCC	11821	GGGUCAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUGUA	30196
9214	1816	CAAAUGAC C CGACGUCA	11822	UGACGUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUUUG	30197
9215	1815	AAAUGACC C GACGUCAA	11823	UUGACGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCAUUU	30198
9222	1808	CCGACGUC A ACUUGACA	11824	UGUCAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUCGG	30199

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9225	1805	ACGUCAAC U UGACAGUG	11825	CACUGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGACGU	30200
9230	1800	AACUUGAC A GUGUUGCU	11826	AGCAACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAAGUU	30201
9238	1792	AGUGUUGC U UGAAAAU	11827	AAUUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACACU	30202
9248	1782	GAAAAUUC C ACAGGAAU	11828	AUUCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUUUC	30203
9249	1781	AAAAUUC C CAGGAAUG	11829	CAUUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAUUUU	30204
9251	1779	AAUCCAC A GGAAUGGC	11830	GCCAUUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAAUU	30205
9260	1770	GGAAUGGC U CCAGCCAA	11831	UUGGCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUUCC	30206
9262	1768	AAUGGCUC C AGCCAAAG	11832	CUUUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCAUU	30207
9263	1767	AUGGCUC C GCCAAAGC	11833	GUUUGGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCCAU	30208
9266	1764	GUCCAGC C AAAGCUUG	11834	CAAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGAGC	30209
9267	1763	GUCCAGC C AAGCUUGA	11835	UCAAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ITCUGGAG	30210
9272	1758	GCCAAAGC U UGAUGCAG	11836	CUGCAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUGGC	30211
9279	1751	CUUGAUGC A GAGCUC C	11837	GGGAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCAAG	30212
9284	1746	UGCAGAGC U CCCUCUUG	11838	CAAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGCA	30213
9286	1744	CAGAGCUC C CUCUUGUG	11839	CACAAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUCUG	30214
9287	1743	AGAGCUC C UCUUGUGA	11840	UCACAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCUCU	30215
9288	1742	GAGCUC C CUUGUGAG	11841	CUCACAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGCUC	30216
9290	1740	GCUC CUC U UGUGAGCC	11842	GGCUCACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGGAGC	30217
9298	1732	UUGUGAGC C CAUUGCUA	11843	UAGCAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCACA	30218
9299	1731	UUGAGGCC C AAUGCUAU	11844	AUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCUCACA	30219
9300	1730	GUGAGGCC A AUGCUAUC	11845	GAUAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGCUCAC	30220
9305	1725	CCCAAUGC U AUCACAGA	11846	UCUGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGGG	30221
9309	1721	AUGCUAUC A CAGACUGC	11847	GCAGUCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUAGCAU	30222
9311	1719	GUUAUCAC A GACUGCUU	11848	AAGCAGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUAGC	30223
9315	1715	UCACAGAC U GCUUCGUG	11849	CACGAAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGUGA	30224
9318	1712	CAGACUGC U UCGUGGCG	11850	CGCCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUCUG	30225
9335	1695	UGUGGUUC C UCAAACUC	11851	GAGUUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCACA	30226
9336	1694	GUGGUUC C CAAACUCC	11852	GGAGUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACCAC	30227
9338	1692	GGUUCUC A AACUCCAU	11853	AUGGAGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAACC	30228
9342	1688	CCUCAAAC U CCAUUAAC	11854	GUUAUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUGAGG	30229
9344	1686	UCAAACUC C AUUAACGU	11855	ACGUUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUUGA	30230
9345	1685	CAAACUCC A UUAACGUC	11856	GACGUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUUUG	30231
9354	1676	UUAACGUC U CUCUGUUC	11857	GAACAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUUA	30232
9356	1674	AACGUCUC U CUGUCCU	11858	AGGAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACGUU	30233
9358	1672	CGUCUCUC U GUUCCUC	11859	GGAGGAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGACG	30234
9363	1667	CUCUGUUC C UCCACACA	11860	UGUGUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAGAG	30235
9364	1666	UCUGUUC C CCACACAG	11861	CUGUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACAGA	30236
9366	1664	UGUUCUC C ACACAGUA	11862	UACUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAACA	30237
9367	1663	GUUCCUC C CACAGUAC	11863	GUACUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAC	30238
9369	1661	UCCUCCAC A CAGUACU	11864	AAGUACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGGA	30239
9371	1659	CUCCACAC A GUACUUC	11865	GGAAGUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGGAG	30240
9376	1654	CACAGUAC U UCCAGCAC	11866	GUGCUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACUGUG	30241
9379	1651	AGUACUUC C AGCACUGC	11867	GCAGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGUACU	30242
9380	1650	GUACUUC C GCACUGCU	11868	AGCAGUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGUAC	30243
9383	1647	CUUCCAG C CUGCUCCA	11869	UUGAGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGAAG	30244
9385	1645	UCCAGCAC U GCUCCAAG	11870	CUGAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUGGA	30245
9388	1642	AGCACUGC U CCAAGGGA	11871	UCCCUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUGCU	30246
9390	1640	CACUGCUC C AAGGGAGG	11872	CCUCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAGUG	30247
9391	1639	ACUGCUCC A AGGGAGGU	11873	ACCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCAGU	30248
9407	1623	UUGAGGUC C AUGAACCA	11874	UGGUUCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUCAA	30249
9408	1622	UGAGGUCC A UGAACCAC	11875	GUGGUUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCUCA	30250
9414	1616	CCAUGAAC C ACUCACGA	11876	UCGUGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCAUGG	30251
9415	1615	CAUGAAC C CUCACGAU	11877	AUCGUGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCAUG	30252
9417	1613	UGAACCAU C CAGAUUG	11878	CCAUCGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGUUCA	30253
9419	1611	AACCACUC A CGAUGGAC	11879	GUCCAUCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUUU	30254
9428	1602	CGAUGGAC C AAGAACGU	11880	ACGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUCG	30255
9429	1601	GAUGGACC A AGAACGUC	11881	GACGUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUCCAUC	30256
9438	1592	AGAACGUC U UUGUCCA	11882	UGGAACAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUUCU	30257
9445	1585	CUUGUUC C AACAGUCA	11883	UGACUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACAAAG	30258
9446	1584	UUUGUUC C ACAGUCAU	11884	AUGACUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAACAAA	30259
9449	1581	GUUCCAAC A GUCAUCAC	11885	GUGAUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAAC	30260

9453	1577	CAACAGUC A UCACGUAG	11886	CUACGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGUUG	30261
9456	1574	CAGUCAUC A CGUAGUAU	11887	AUACUACG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGACUG	30262
9467	1563	UAGUAUGC A UUGGUGUC	11888	GACACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUACUA	30263
9476	1554	UUGGUGUC A AUCCUGA	11889	UCAGGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACCAA	30264
9480	1550	UGUCAAUC C CUGACCGU	11890	ACGGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGACA	30265
9481	1549	GUCAAUCC C UGACCGUG	11891	CACGUGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGAC	30266
9482	1548	UCAAUCCC U GACCGUGG	11892	CCACGGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAUUGA	30267
9486	1544	UCCCUGAC C GUGGUUCA	11893	UGAACCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGGGA	30268
9494	1536	CGUGGUUC A CAGUCCAC	11894	GUGGACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCACG	30269
9496	1534	UGGUUCAC A GUCCACUG	11895	CAGUGGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAACCCA	30270
9500	1530	UCACAGUC C ACUGUCAC	11896	GUGACAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUGUGA	30271
9501	1529	CACAGUCC A CUGUCACC	11897	GGUGACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACUGUG	30272
9503	1527	CAGUCCAC U GUCACCUC	11898	GAGGUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGACUG	30273
9507	1523	CCACUGUC A CCUCUCCA	11899	UGGAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACAGUGG	30274
9509	1521	ACUGUCAC C UCUCCAUA	11900	UAUGGAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGACAGU	30275
9510	1520	CUGUCACC U CUCCAUAU	11901	AUAUGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGACAG	30276
9512	1518	GUCACCUC U CCAUAUUC	11902	GAAUAUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGUGAC	30277
9514	1516	CACCUCUC C AUAUUCUC	11903	GAGAAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGUG	30278
9515	1515	ACCUCUCC A UAUUCUCC	11904	GGAGAAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGGUU	30279
9521	1509	CCAUAUUC U CCAAGCUU	11905	AAGCUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUAUGG	30280
9523	1507	AUAUUCUC C AAGCUUUA	11906	UAAAGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAUAU	30281
9524	1506	UAUUCUCC A AGCUUUAU	11907	CUAAAGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAAUA	30282
9528	1502	CUCCAAGC U UUAGUGUG	11908	CACACUAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGGAG	30283
9548	1482	GAAAGCGC C GCAGGAGU	11909	ACUCCUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCCUUC	30284
9551	1479	GGCGCCGC A GGAGUGAU	11910	AUCACUCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGGCGCC	30285
9562	1468	AGUGAUGC U GAAUCUCC	11911	GGAGAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUCACU	30286
9568	1462	GCUGAAUC U CCCUGCCU	11912	AGGCAGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCAGC	30287
9570	1460	UGAAUCUC C CUGCCUGA	11913	UCAGGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAUUCA	30288
9571	1459	GAAUCUCC C UGCCUGAG	11914	CUCAGGCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGAUUC	30289
9572	1458	AAUCUCCC U GCCUGAGU	11915	ACUCAGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGAUU	30290
9575	1455	CUCCUUGC C UGAGUGGC	11916	GCCACUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGGGAG	30291
9576	1454	UCCUGGCC U GAGUGGCU	11917	AGCCACUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGGGA	30292
9584	1446	UGAGUGGC U CCAACCUG	11918	CAGGUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCACUCA	30293
9586	1444	AGUGGCUC C AACCUGUG	11919	CACAGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCCACU	30294
9587	1443	GUGGCUC C ACCUGUGU	11920	ACACAGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCCAC	30295
9590	1440	GCUCCAAC C UGUGUGGA	11921	UCCACACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAGC	30296
9591	1439	CUCCAACC U GUGUGGAG	11922	CUCCACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGGAG	30297
9607	1423	GUAGUUUC C GUGCGACU	11923	AGUCGCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAACUAC	30298
9615	1415	CGUGCGAC U CCACAGUA	11924	UACUGUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGCACG	30299
9617	1413	UGCGACUC C ACAGUAGU	11925	ACUACUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUCGCA	30300
9618	1412	GCGACUCC A CAGUAGUU	11926	AACUACUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUCGC	30301
9620	1410	GACUCCAC A GUAGUUGG	11927	CCAACUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAGUC	30302
9631	1399	AGUUGGUC C AUGGACAA	11928	UUGUCCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAACU	30303
9632	1398	GUUGGUCC A UGGACAAA	11929	UUUGUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCAAC	30304
9638	1392	CCAUGGAC A AAAAUGGC	11930	GCCAUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCCAUGG	30305
9647	1383	AAAAUGGC C ACUUCGUA	11931	UACGAAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCAUUUU	30306
9648	1382	AAAUGGCC A CUUCGUAC	11932	GUACGAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCAUUU	30307
9650	1380	AUGGCCAC U UCGUACUU	11933	AAGUACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCCAU	30308
9657	1373	CUUCGUAC U UGAUAUUC	11934	GAAUAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUACGAAG	30309
9666	1364	UGAUUAUC U CUUUAAG	11935	CUUGAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUAUCA	30310
9668	1362	AUAUUCUC U UUCAAGAU	11936	AUCUUGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAAUAU	30311
9672	1358	UCUCUUUC A AGAUGGUU	11937	AACCAUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGAGA	30312
9682	1348	GAUGGUUC U UCCUAUUG	11938	CAUAAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCAUC	30313
9685	1345	GGUUCUUC C UAUUGCCU	11939	AGGCAUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAACC	30314
9686	1344	GUUCUUC C AUUGCCUU	11940	AAGGCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGAAC	30315
9692	1338	CCUAUUGC C UUGGUAGA	11941	UCUACCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAAUAGG	30316
9693	1337	CUAUUGCC U UGUAGAG	11942	CUCUACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAUAG	30317
9703	1327	GGUAGAGC A GGCAAUU	11943	AAUUUGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUACC	30318
9707	1323	GAGCAGGC A AAUUUGGC	11944	GCCAAAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGCUC	30319
9718	1312	UUUGGCGC A UGUGUCAA	11945	UUGACACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGCCAAA	30320
9725	1305	CAUGUGUC A AUGCUUCC	11946	GGAAGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACACAUG	30321

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9730	1300	GUCAAUGC U UCCUUUGC	11947	GCAAAGGA CUGAUGAG	GCCGUUAGGC	CGAA ICAUUGAC	30322
9733	1297	AAUGCUUC C UUUGCCAA	11948	UUUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IAAGCAU	30323
9734	1296	AUGCUUCC U UUGCCAAA	11949	UUUGGCAA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGCAU	30324
9739	1291	UCCUUUGC C AAUAUAUC	11950	GAUUAUUU CUGAUGAG	GCCGUUAGGC	CGAA ICAAAGGA	30325
9740	1290	CCUUUGCC A AAUAUAUC	11951	GAUUAUUU CUGAUGAG	GCCGUUAGGC	CGAA IGCAAAGG	30326
9748	1282	AAUAUAUC C GCAGCCGU	11952	ACGGCUGC CUGAUGAG	GCCGUUAGGC	CGAA IAUUAUUU	30327
9751	1279	UAAUCCGC A GCCGUUGC	11953	GCAACGGC CUGAUGAG	GCCGUUAGGC	CGAA ICGGAUUA	30328
9754	1276	UCCGCAGC C GUUGCCCC	11954	GGGGCAAC CUGAUGAG	GCCGUUAGGC	CGAA ICUGCGGA	30329
9760	1270	GCCGUUGC C CCAGCCCC	11955	GGGGCUGG CUGAUGAG	GCCGUUAGGC	CGAA ICACCGGC	30330
9761	1269	CCGUUGCC C CAGCCCCU	11956	AGGGGCUG CUGAUGAG	GCCGUUAGGC	CGAA IGCAACGG	30331
9762	1268	CGUUGCCC C AGCCCCUG	11957	CAGGGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGGCAACG	30332
9763	1267	GUUGCCCC A GCCCCUGU	11958	ACAGGGGC CUGAUGAG	GCCGUUAGGC	CGAA IGGGCAAC	30333
9766	1264	GCCCCAGC C CCUGUCCA	11959	UGGACAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGGC	30334
9767	1263	CCCCAGCC C CUGUCCAC	11960	GUGGACAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGGGG	30335
9768	1262	CCCAGCCC C UGUCCACC	11961	GGUGGACA CUGAUGAG	GCCGUUAGGC	CGAA IGGCUGGG	30336
9769	1261	CCAGCCCC U GUCCACCA	11962	UGGUGGAC CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUGG	30337
9773	1257	CCCUGUC C ACCACUCC	11963	GGAGUGGU CUGAUGAG	GCCGUUAGGC	CGAA IACAGGGG	30338
9774	1256	CCCUGUCC A CCACUCCU	11964	AGGAGUGG CUGAUGAG	GCCGUUAGGC	CGAA IGACAGGG	30339
9776	1254	CUGUCCAC C ACUCCUUG	11965	CAAGGAGU CUGAUGAG	GCCGUUAGGC	CGAA IUGGACAG	30340
9777	1253	UGUCCACC A CUCCUUGU	11966	ACAAGGAG CUGAUGAG	GCCGUUAGGC	CGAA IGUGGACA	30341
9779	1251	UCCACCAC U CCUUGUCU	11967	AGACAAGG CUGAUGAG	GCCGUUAGGC	CGAA IUUGUGGA	30342
9781	1249	CACCACUC C UUGUCUGC	11968	GCAGACAA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUGU	30343
9782	1248	ACCACUCC U UGUCUGCA	11969	UGCAGACA CUGAUGAG	GCCGUUAGGC	CGAA IAGUGUGU	30344
9787	1243	UCCUUGUC U GCACACAA	11970	UUGUGUGC CUGAUGAG	GCCGUUAGGC	CGAA IACAAGGA	30345
9790	1240	UUGUCUGC A CACAAAAG	11971	CUUUUGUG CUGAUGAG	GCCGUUAGGC	CGAA ICAGACAA	30346
9792	1238	GUUGUCAC A CAAAAGCU	11972	AGCUUUUG CUGAUGAG	GCCGUUAGGC	CGAA IUUGCAGAC	30347
9794	1236	CUGCACAC A AAAGCUGG	11973	CCAGCUUU CUGAUGAG	GCCGUUAGGC	CGAA IUUGUCAG	30348
9800	1230	ACAAAAGC U GGGUCAGC	11974	GCUGACCC CUGAUGAG	GCCGUUAGGC	CGAA ICUUUUGU	30349
9806	1224	GCUGGGUC A GCACGUUU	11975	AAACGUGC CUGAUGAG	GCCGUUAGGC	CGAA IACCCAGC	30350
9809	1221	GGGUCAGC A CGUUUGUC	11976	GACAAACG CUGAUGAG	GCCGUUAGGC	CGAA ICUGACCC	30351
9818	1212	CGUUUGUC A UUGUGAGC	11977	GCUCACAA CUGAUGAG	GCCGUUAGGC	CGAA IACAAACG	30352
9827	1203	UUGUGAGC U UCUCUCAU	11978	AUGGGAGA CUGAUGAG	GCCGUUAGGC	CGAA ICUCACAA	30353
9830	1200	UGAGCUUC U CCCAUGGU	11979	ACCAUGGG CUGAUGAG	GCCGUUAGGC	CGAA IAAGCUCA	30354
9832	1198	AGCUUCUC C CAUGGUCG	11980	CGACCAUG CUGAUGAG	GCCGUUAGGC	CGAA IAGAAGCU	30355
9833	1197	GUUCUCC C AUGGUCGG	11981	CCGACCAU CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAGC	30356
9834	1196	CUUCUCCC A UGGUCGGG	11982	CCCGACCA CUGAUGAG	GCCGUUAGGC	CGAA IGAGAAG	30357
9844	1186	GGUCGGGC A CGCAGCUU	11983	AAGCUGCG CUGAUGAG	GCCGUUAGGC	CGAA ICCCAGC	30358
9848	1182	GGGACGCG A GCUUUGGU	11984	ACCAAAGC CUGAUGAG	GCCGUUAGGC	CGAA ICUGGCC	30359
9851	1179	CACGCAGC U UUGGUGGA	11985	UCCACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICGCGUG	30360
9868	1162	GAGAUCCG U GACGGUAG	11986	CUACCGUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGUC	30361
9878	1152	ACGGUAGC C AAUAAGCA	11987	UGCUAUUU CUGAUGAG	GCCGUUAGGC	CGAA ICUACCGU	30362
9879	1151	CGGUAGCC A AAUAGCAA	11988	UUGCUAUU CUGAUGAG	GCCGUUAGGC	CGAA IGCUACCG	30363
9886	1144	CAAUAAGC A AUAACUGC	11989	GCAGUUAU CUGAUGAG	GCCGUUAGGC	CGAA ICUAUUUG	30364
9892	1138	GCAAUAAC U GCGACCU	11990	AGGUCCGC CUGAUGAG	GCCGUUAGGC	CGAA IUUAUUGC	30365
9899	1131	CUGCGGAC C UCUGCCAG	11991	CUGGCAGA CUGAUGAG	GCCGUUAGGC	CGAA IUCCGCAG	30366
9900	1130	UGCGGACC U CUGCCAGG	11992	CCUGGCAG CUGAUGAG	GCCGUUAGGC	CGAA IGUCCGCA	30367
9902	1128	CGGACCUC U GCCAGGUU	11993	AACCUGGC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCCG	30368
9905	1125	ACCUCUGC C AGGUUGAC	11994	GUCAACCU CUGAUGAG	GCCGUUAGGC	CGAA ICAGAGGU	30369
9906	1124	CCUCUGCC A GGUUGACC	11995	GGUCAACC CUGAUGAG	GCCGUUAGGC	CGAA IGCAGAGG	30370
9914	1116	AGGUUGAC C GCCUCCA	11996	AUGGAGGC CUGAUGAG	GCCGUUAGGC	CGAA IUCAACCU	30371
9917	1113	UUGACCGC C UCCAUAU	11997	AAUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCAA	30372
9918	1112	UGACCGCC U CCAUAUUC	11998	GAUAUAGG CUGAUGAG	GCCGUUAGGC	CGAA ICGGUCAA	30373
9920	1110	ACCGCCUC C AUAUUCAU	11999	AUGAAUAU CUGAUGAG	GCCGUUAGGC	CGAA IAGCGCGU	30374
9921	1109	CCGCCUCC A UAUUCAUC	12000	GAUGAAUA CUGAUGAG	GCCGUUAGGC	CGAA IGAGGCGG	30375
9927	1103	CCAUAUUC A UCAUCUUC	12001	GAGAUGA CUGAUGAG	GCCGUUAGGC	CGAA IAAUAUGG	30376
9930	1100	UAUUCAC A UCUCACA	12002	UGUAAGA CUGAUGAG	GCCGUUAGGC	CGAA IAUAAUA	30377
9933	1097	UAUUCAC U UCACAUCG	12003	CGAUGUGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGAUGA	30378
9936	1094	UAUCUUC A CAUCGAUG	12004	CAUCGAUG CUGAUGAG	GCCGUUAGGC	CGAA IAUGAUGA	30379
9938	1092	AUCUUCAC A UCAGUGGU	12005	ACCAUCGA CUGAUGAG	GCCGUUAGGC	CGAA IUGAAGAU	30380
9951	1079	UGGUAGGC U UGUCCUUA	12006	UAAGGACA CUGAUGAG	GCCGUUAGGC	CGAA ICCUACCA	30381
9956	1074	GGCUUGUC C UUAGACAU	12007	AUGUCUAA CUGAUGAG	GCCGUUAGGC	CGAA IACAAGCC	30382

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9957	1073	GCUUGUCC U UAGACAUG	12008	CAUGUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACAAGC	30383
9963	1067	CCUUAGAC A UGAUAGUC	12009	GACUAUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUAAGG	30384
9972	1058	UGAUAGUC A CGCAGCUG	12010	CAGCUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUAUCA	30385
9976	1054	AGUCACGC A GCUGUCGC	12011	GCGACAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUGACU	30386
9979	1051	CACGCAGC U GUCGCCUU	12012	AAGGCGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGCGUG	30387
9985	1045	GCUGUCGC C UUCGAGAA	12013	UUCUCGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGACAGC	30388
9986	1044	CUGUCGCC U UCGAGAAC	12014	GUUCUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGACAG	30389
9995	1035	UCGAGAAC C AAAUCCAC	12015	GUGGAUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUCUCGA	30390
9996	1034	CGAGAACC A AAUCCACC	12016	GGUGGAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUUCUG	30391
10001	1029	ACCAAUCC C ACCCAUGU	12017	ACAUGGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUUGGU	30392
10002	1028	CCAAAUCC A CCCAUGUU	12018	AACAUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUUUGG	30393
10004	1026	AAAUCCAC C CAUGUUGC	12019	GCAACAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGAUUU	30394
10005	1025	AAUCCACC C AUGUUGCU	12020	AGCAACAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGAUU	30395
10006	1024	AUCCACCC A UGUUGCUC	12021	GAGCAACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGUGGAU	30396
10013	1017	CAUGUUGC U CCAGACAC	12022	GUGUCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACAUG	30397
10015	1015	UGUUGCUC C AGACACUC	12023	GAGUGUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAACA	30398
10016	1014	GUUGCUC C A GACACUCC	12024	GGAGUGUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCAAC	30399
10020	1010	CUCCAGAC A CUCCUCC	12025	GGAAGGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUGGAG	30400
10022	1008	CCAGACAC U CCUCCAA	12026	UUGGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCUCUGG	30401
10024	1006	AGACACUC C UCCAAGA	12027	UCUUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUGUCU	30402
10025	1005	GACACUCC U UCCAAGAA	12028	UUCUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGUGUC	30403
10028	1002	ACUCCUUC C AAGAAGUC	12029	GACUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGAGU	30404
10029	1001	CUCCUCC A AGAAGUCU	12030	AGACUUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGGAG	30405
10037	993	AAGAAGUC U CUGUUGCU	12031	AGCAACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACUUCUU	30406
10039	991	GAAGUCUC U GUUGCUC	12032	UGAGCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGACUUC	30407
10045	985	UCUGUUGC U CAUUCCAA	12033	UUGGAAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACAGA	30408
10047	983	UGUUGCUC A UUCAAGG	12034	CCUUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAACA	30409
10051	979	GCUCAUUC C AAGGCAGU	12035	ACUGCCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGAGC	30410
10052	978	CUCAUUC A AGGCAGU	12036	AACUGCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGAG	30411
10057	973	UCCAAGGC A GUUGAAGC	12037	GCUUCAAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUUGGA	30412
10066	964	GUUGAAGC U GUAAGCUG	12038	CAGCUUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUCAAC	30413
10073	957	CUGUAAGC U GGGGCCAC	12039	GUGGCCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUACAG	30414
10079	951	GCUGGGGC C ACCAAAG	12040	CUUUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCCCAGC	30415
10080	950	CUGGGGCC A CCAAAGC	12041	GCUUUUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCCCAG	30416
10082	948	GGGGCCAC C AAAAGCAA	12042	UUGCUUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCCCC	30417
10083	947	GGGCCACC A AAAGCAAU	12043	AUUGCUUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCCCC	30418
10089	941	CCAAAGC A AUAGCAG	12044	CGUGCUAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUUUGG	30419
10095	935	GCAAUAGC A CGACAAAC	12045	GUUGUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAUUGC	30420
10100	930	AGCACGAC A AACACAAC	12046	GUUGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCGUGCU	30421
10104	926	CGACAAAC A CAACUCUC	12047	GAGAGUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUUGUCG	30422
10106	924	ACAAACAC A ACUCUCUG	12048	CAGAGAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUUUGU	30423
10109	921	AACACAAC U CUCUGCAU	12049	AUGCAGAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGUGUU	30424
10111	919	CACAACUC U CUGCAUGG	12050	CCAUGCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGUUGUG	30425
10113	917	CAACUCUC U GCAUGGUG	12051	CACCAUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGAGUUG	30426
10116	914	CUCUCUGC A UGGUGUG	12052	CAACACCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGAGAG	30427
10126	904	GGUGUUGC U CCCAAGCA	12053	UGCUUGGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAACACC	30428
10128	902	UGUUGCUC C CAAGCAUC	12054	GAUGCUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAACA	30429
10129	901	GUUGCUC C AAGCAUCC	12055	GGAUGCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCAAC	30430
10130	900	UUGCUC C A AGCAUCCA	12056	UGGAUGCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGCAA	30431
10134	896	UCCAAGC A UCCAACCA	12057	UGGUUGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUUGGGA	30432
10137	893	CAAGCAUC C AACCAUG	12058	CAUUGGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUCUUG	30433
10138	892	AAGCAUCC A ACCAAUGA	12059	UCAUUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUGCUU	30434
10141	889	CAUCCAAC C AAUGACGG	12060	CCGUCAUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUGGAUG	30435
10142	888	AUCCAACC A AUGACGGC	12061	GCCGUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGUGGAU	30436
10151	879	AUGACGGC U GCCACCAG	12062	CUGGUGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCGUCAU	30437
10154	876	ACGGCUGC C ACCAGGGC	12063	GCCCUGGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGCCGU	30438
10155	875	CGGCUGCC A CCAGGGCA	12064	UGCCUGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCAGCCG	30439
10157	873	GCUGCCAC C AGGGCAUA	12065	UAUGCCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGCAGC	30440
10158	872	CUGCCACC A GGGCAUAU	12066	AUAUGCCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGUGGCAG	30441
10163	867	ACCAGGGC A UAUCAGG	12067	CCUGGAUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGGU	30442
10168	862	GGCAUAUC C AGGGUUC	12068	GGAACCCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGCC	30443

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10169	861	GCAUAUCC A GGGUUCU	12069	AGGAACCC CUGAUGAG	GCCGUUAGGC	CGAA IGAUAUGC	30444
10176	854	CAGGGUUC C UCAAGAUC	12070	GAUCUUGA CUGAUGAG	GCCGUUAGGC	CGAA IAACCCUG	30445
10177	853	AGGGUUCU U CAAGAUC	12071	GGAUCUUG CUGAUGAG	GCCGUUAGGC	CGAA IGAACCCU	30446
10179	851	GGUUCUC A AGAUCCAU	12072	AUGGAUCU CUGAUGAG	GCCGUUAGGC	CGAA IAGGAACC	30447
10185	845	UCAAGAUC C AUGAUUCU	12073	AGAAUCAU CUGAUGAG	GCCGUUAGGC	CGAA IAUCUUGA	30448
10186	844	CAAGAUC C UGAUUCUG	12074	CAGAAUCA CUGAUGAG	GCCGUUAGGC	CGAA IGAUCUUG	30449
10193	837	CAUGAUUC U GUUUUAC	12075	GUAAAAAC CUGAUGAG	GCCGUUAGGC	CGAA IAAUCAUG	30450
10202	828	GUUUUAC C AAUACCU	12076	AGGUUUU CUGAUGAG	GCCGUUAGGC	CGAA IUAAAAAC	30451
10203	827	UUUUUAC A AAUACCU	12077	AAGGUUU CUGAUGAG	GCCGUUAGGC	CGAA IGUAAAAA	30452
10209	821	CCAAUAC C UUGUGGC	12078	GGCCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUUUUUGG	30453
10210	820	CAAUAC C UUGUGGC	12079	AGGCCACA CUGAUGAG	GCCGUUAGGC	CGAA IGUAUUUG	30454
10217	813	CUUGUGGC C UUGUGCU	12080	AGCACCAA CUGAUGAG	GCCGUUAGGC	CGAA ICCACAAG	30455
10218	812	UUGUGGC U UUGUGCU	12081	CAGACCAA CUGAUGAG	GCCGUUAGGC	CGAA IGCCACAA	30456
10225	805	CUUGUGC U GUCCAUC	12082	GGAUGGAC CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAG	30457
10229	801	GUGCUGC C AUCCAAGC	12083	GCUUGGAU CUGAUGAG	GCCGUUAGGC	CGAA IACAGCAC	30458
10230	800	UGCUGUC A UCCAAGC	12084	GGCUUGGA CUGAUGAG	GCCGUUAGGC	CGAA IGACAGCA	30459
10233	797	UGUCCAUC C AAGCCCC	12085	GGGGGCUU CUGAUGAG	GCCGUUAGGC	CGAA IAUGGACA	30460
10234	796	GUCCAUC A AGCCCCU	12086	AGGGGGCU CUGAUGAG	GCCGUUAGGC	CGAA IGAUGGAC	30461
10238	792	AUCCAAGC C CCUUCU	12087	AAGAAGG CUGAUGAG	GCCGUUAGGC	CGAA ICUUGGAU	30462
10239	791	UCCAAGC C CCUUCU	12088	CAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGCUUGGA	30463
10240	790	CCAAGCC C CUUCUUGU	12089	ACAAGAAG CUGAUGAG	GCCGUUAGGC	CGAA IGGCUUGG	30464
10241	789	CAAGCCC C UUCUUGU	12090	AACAAGAA CUGAUGAG	GCCGUUAGGC	CGAA IGGGCUUG	30465
10242	788	AAGCCCC U UCUUGU	12091	GAACAAGA CUGAUGAG	GCCGUUAGGC	CGAA IGGGGCUU	30466
10245	785	CCCCUUC U UGUUGCU	12092	AGCGAACA CUGAUGAG	GCCGUUAGGC	CGAA IAAGGGGG	30467
10253	777	UUGUUGC U AGAGUGCU	12093	AGCACUCU CUGAUGAG	GCCGUUAGGC	CGAA ICGAACAA	30468
10261	769	UAGAGUGC U UUCUCCU	12094	ACGGAGAA CUGAUGAG	GCCGUUAGGC	CGAA ICACUCUA	30469
10265	765	GUGCUUC U CCGUGUGU	12095	ACACACGG CUGAUGAG	GCCGUUAGGC	CGAA IAAAGCAC	30470
10267	763	GCUUUCU C GUGUGUCU	12096	AGACACAC CUGAUGAG	GCCGUUAGGC	CGAA IAGAAAGC	30471
10275	755	CGUGUGC U GCACUGUC	12097	GACAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IACACACG	30472
10278	752	GUGUGC A CUGUCAGU	12098	ACUGACAG CUGAUGAG	GCCGUUAGGC	CGAA ICACACAC	30473
10280	750	GUCUGAC U GUCAGUGA	12099	UCACUGAC CUGAUGAG	GCCGUUAGGC	CGAA IUGCAGAC	30474
10284	746	GCACUGC A GUGACU	12100	GAGGUCAC CUGAUGAG	GCCGUUAGGC	CGAA IACAGUGC	30475
10290	740	UCAGUGAC C UCCGACUG	12101	CAGUCGGA CUGAUGAG	GCCGUUAGGC	CGAA IUCACUGA	30476
10291	739	CAGUGAC U CCGACUGC	12102	GCAGUCGG CUGAUGAG	GCCGUUAGGC	CGAA IGUCACUG	30477
10293	737	GUGACCUC C GACUGCGU	12103	ACGCAGUC CUGAUGAG	GCCGUUAGGC	CGAA IAGGUCAC	30478
10297	733	CCUCCGAC U GCGUCUUG	12104	CAAGACGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGAGG	30479
10303	727	ACUGCGUC U UGAGUGGC	12105	GCCACUCA CUGAUGAG	GCCGUUAGGC	CGAA IACGCAGU	30480
10317	713	GGCGUGC U UGGUGCAU	12106	AUGCACCA CUGAUGAG	GCCGUUAGGC	CGAA IACACGCC	30481
10324	706	CUUGUGC A UCUUCCAU	12107	AUGGAAGA CUGAUGAG	GCCGUUAGGC	CGAA ICACCAAG	30482
10327	703	GGUGAUC U UCCAUAAC	12108	GGUAUGGA CUGAUGAG	GCCGUUAGGC	CGAA IAUGCACC	30483
10330	700	GCAUCUUC C AUACCUA	12109	UCAGGUUA CUGAUGAG	GCCGUUAGGC	CGAA IAAGAUGC	30484
10331	699	CAUCUUC A UACCGAC	12110	GUCAGGUA CUGAUGAG	GCCGUUAGGC	CGAA IGAAGAUG	30485
10335	695	UCCAUAUC C UGACGUAG	12111	CUACGUCA CUGAUGAG	GCCGUUAGGC	CGAA IUAUGGAA	30486
10336	694	UCCAUAAC U GACGUAGA	12112	UCUACGUC CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGGA	30487
10346	684	ACGUAGAC U GCUGACU	12113	AAGUCAGC CUGAUGAG	GCCGUUAGGC	CGAA IUCUACGU	30488
10349	681	UAGACUGC U GACUUUGU	12114	ACAAAGUC CUGAUGAG	GCCGUUAGGC	CGAA ICAGUCUA	30489
10353	677	CUGCUGAC U UUGUGCAC	12115	GUGCACAA CUGAUGAG	GCCGUUAGGC	CGAA IUCACAG	30490
10360	670	CUUUGUC A CCAACAGU	12116	ACUGUUGG CUGAUGAG	GCCGUUAGGC	CGAA ICACAAAG	30491
10362	668	UUGUGC C AACAGUCG	12117	CGACUGU CUGAUGAG	GCCGUUAGGC	CGAA IUGCACAA	30492
10363	667	UGUGCAC A ACAGUCGA	12118	UCGACUGU CUGAUGAG	GCCGUUAGGC	CGAA IGUGCACA	30493
10366	664	GCACCAAC A GUCGAUGU	12119	ACAUCGAC CUGAUGAG	GCCGUUAGGC	CGAA IUUGGUGC	30494
10376	654	UCGAUGUC U UCUGGAUC	12120	GAUCCAGA CUGAUGAG	GCCGUUAGGC	CGAA IACAUCGA	30495
10379	651	AUGUCUUC U GGAUCAU	12121	AAUGAUCC CUGAUGAG	GCCGUUAGGC	CGAA IAAGACAU	30496
10385	645	UCUGGAUC A UAACGAC	12122	GCUGGUA CUGAUGAG	GCCGUUAGGC	CGAA IAUCCAGA	30497
10390	640	AUCAUAC C AGCCGACA	12123	UGUCGGC CUGAUGAG	GCCGUUAGGC	CGAA IUAAUGAU	30498
10391	639	UCAUACC A GCCGACAG	12124	CUGUCGGC CUGAUGAG	GCCGUUAGGC	CGAA IGUAUGA	30499
10394	636	UUACCAGC C GACAGCAC	12125	GUGCUGUC CUGAUGAG	GCCGUUAGGC	CGAA IUCGUAA	30500
10398	632	CAGCCGAC A GCACUGGG	12126	CCCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA IUCGGCUG	30501
10401	629	CCGACAGC A CUGGGCAU	12127	AUGCCGAG CUGAUGAG	GCCGUUAGGC	CGAA ICUGUCGG	30502
10403	627	GACAGCAC U GGGCAUUC	12128	GAAUGCCC CUGAUGAG	GCCGUUAGGC	CGAA IUGCUGUC	30503
10408	622	CACUGGC A UUCAUAG	12129	CUUAUGAA CUGAUGAG	GCCGUUAGGC	CGAA ICCAGUG	30504

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10412	618	GGGCAUUC A UAAGUGAU	12130	AUCACUUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUGCCC	30505
10427	603	AUAGUAUC A UCGCACAU	12131	AUGUGCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUACUUA	30506
10432	598	AUCAUCGC A CAUGUAUC	12132	GAUACAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAUGAU	30507
10434	596	CAUCGCAC A UGUAUCCC	12133	GGGAUACA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCGAUG	30508
10441	589	CAUGUAUC C CACAUCCA	12134	UGGAUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUACAUG	30509
10442	588	AUGUAUCC C ACAUCCAU	12135	AUGGAUGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUACAU	30510
10443	587	UGUAUCCC A CAUCCAUU	12136	AAUGGAUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAUACA	30511
10445	585	UAUCCAC A UCCAUGC	12137	GCAAUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGGGAUA	30512
10448	582	CCCACAUC C AUUGCUCU	12138	AGAGCAAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGUGGG	30513
10449	581	CCACAUCC A UUGCUCUG	12139	CAGAGCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAUUGG	30514
10454	576	UCCAUGC U CUGACAAU	12140	AUUGUCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGGA	30515
10456	574	CAUUGCUC U GACAAUGC	12141	GCAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAAUG	30516
10460	570	GCUCUGAC A AUGCAUAG	12142	CUAUGCAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAGAGC	30517
10465	565	GACAAUGC A UAGGUUCU	12143	AGAACCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAUUGUC	30518
10473	557	AUAGGUUC U UUCAGCA	12144	UGCUGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAACCUAU	30519
10477	553	GUUCUUUC C AGCAGCUG	12145	CAGCUCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGAAC	30520
10478	552	UUUUUCC A GCAGCUGU	12146	ACAGCUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAAGAA	30521
10481	549	UUUCCAGC A GCUGUUGG	12147	CCAACAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUGGAAA	30522
10484	546	CCAGCAGC U GUUGGAAU	12148	AUUCACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCUGG	30523
10502	528	GUGAUGAC A UCUGGAC	12149	GUCACAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCACAC	30524
10505	525	AUGACAUC U GUGACGUC	12150	GACGUCAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGUCAU	30525
10514	516	GUGACGUC A GUAGCAU	12151	AAUGCUAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGUCAC	30526
10520	510	UCAGUAGC A UUUACCGU	12152	ACGGUAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUACUGA	30527
10526	504	GCAUUUAC C GUCAUCAU	12153	AUGAUGAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUAAAUGC	30528
10530	500	UUACCGUC A UCAUACCC	12154	GGUGAUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACGGUAA	30529
10533	497	CCGUCAUC A UCACCUUC	12155	GAAGGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGACGG	30530
10536	494	UCAUCAUC A CCUUCCTU	12156	AGGGAAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUGAUGA	30531
10538	492	AUCAUAC C UUCCCUUG	12157	CAAGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUGAU	30532
10539	491	UCAUACCC U UCCCUUGG	12158	CCAAGGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGAUGA	30533
10542	488	UCACCUUC C CUUGGAAG	12159	CUUCCAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAGGUGA	30534
10543	487	CACCUUCC C UUGGAAGU	12160	ACUUCCAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAGGUG	30535
10544	486	ACCUUCCC U UGGAAGUU	12161	AACUCCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGAGGU	30536
10565	465	AGGGUAA C U GCUCCUAC	12162	GUAGGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUUACCUU	30537
10568	462	GUAACUGC U CCUACGCU	12163	AGCGUAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUUAC	30538
10570	460	AACUGCUC C UACGCUGG	12164	CCAGCGUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCAGUU	30539
10571	459	ACUGCUCC U ACGCUGGC	12165	GCCAGCGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAGCAGU	30540
10576	454	UCCUAGC U GGCGAUCA	12166	UGAUGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGUAGGA	30541
10584	446	UGGCGAUC A GGCCAUC	12167	GAUUGGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUCGCA	30542
10588	442	GAUCAGGC C AAUCAUGA	12168	UCAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICCUGAUC	30543
10589	441	AUCAGGCC A AUCAUGAC	12169	GUCAUGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGCCUGAU	30544
10593	437	GGCCAAUC A UGACUGCA	12170	UGCAGUCA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAUUGGCC	30545
10598	432	AUCAUGAC U GCAAUUC	12171	GGAAUUGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUCAUGAU	30546
10601	429	AUGACUGC A AUUCCGGU	12172	ACCGGAU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICAGUCAU	30547
10606	424	UGCAAUUC C GGUCUUUC	12173	GAAAGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUUGCA	30548
10611	419	UUCCGGUC U UUCUCCU	12174	AGGAGGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCGGAA	30549
10615	415	GGUCUUUC C UCCUCUUU	12175	AAAGAGGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAGACC	30550
10616	414	GUCUUUC U CCUCUUU	12176	AAAAGAGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGAAAGAC	30551
10618	412	CUUCCUC C UCUUUUCU	12177	AGAAAAGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAAG	30552
10619	411	UUUCCUCC U CUUUUCU	12178	AAGAAAAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAAA	30553
10621	409	UCCUCCUC U UUCUUUU	12179	AAAAGAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGGAGGA	30554
10626	404	CUCUUUC U UUGUUUU	12180	AAAACAAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAAAGAG	30555
10639	391	UUUUGAGC U CCGCCGAU	12181	AUCGGCGG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUCAAAA	30556
10641	389	UUGAGCUC C GCCGAUUG	12182	CAUCCGGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAGCUCAA	30557
10644	386	AGCUCGC C GAUUGAU	12183	UAUCAUC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICGAGCU	30558
10655	375	UUGAUAGC A CUGGUCAA	12184	UUGACCAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA ICUAUCAA	30559
10657	373	GAUAGCAC U GGUCAAGG	12185	CCUUGACC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IUGCUAUC	30560
10662	368	CACUGGUC A AGGUCCCU	12186	AGGGACCU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCAGUG	30561
10668	362	UCAAGGUC C CUAGUUC	12187	GGAACUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IACCUUGA	30562
10669	361	CAAGGUCC C UAGUCCU	12188	AGGAACUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGACCUUG	30563
10670	360	AAGGUCCC U AGUCCUU	12189	AAGGAACU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IGGACCUU	30564
10676	354	CCUAGUUC C UUCUAAA	12190	UUUAAGAA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA IAAUCAGG	30565

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10677	353	CUAGUUC U UCUGAAAA	12191	UUUUAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAACUAG	30566
10680	350	GUUCCUUC U UAAAACUC	12192	GAGUUUUA CUGAUGAG	GCCGUUAGGC	CGAA	IAAGGAAC	30567
10687	343	CUUAAAA C U CAGAAGGU	12193	ACCUUCUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUUUAAG	30568
10689	341	UAAAACUC A GAAGGUGU	12194	ACACCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IAGUUUUA	30569
10701	329	GGUGUUUC A UCGCUGUU	12195	AAACCGCA CUGAUGAG	GCCGUUAGGC	CGAA	IAAACACC	30570
10706	324	UUCAUCGC U GUUUGUUU	12196	AAACAAAC CUGAUGAG	GCCGUUAGGC	CGAA	ICGAUGAA	30571
10719	311	GUUUGUUC A CACCUCUC	12197	GAGAGGUG CUGAUGAG	GCCGUUAGGC	CGAA	IAACAAAC	30572
10721	309	UGUUCAC A CCUCUCCA	12198	UGGAGAGG CUGAUGAG	GCCGUUAGGC	CGAA	IUGAACAA	30573
10723	307	GUUCACAC C UCUCUCC	12199	GAUGGAGA CUGAUGAG	GCCGUUAGGC	CGAA	IUGUGAAC	30574
10724	306	UUCACACC U CUCCAUCG	12200	CGAUGGAG CUGAUGAG	GCCGUUAGGC	CGAA	IGUGUGAA	30575
10726	304	CACACCUC U CCAUCGAU	12201	AUCGAUGG CUGAUGAG	GCCGUUAGGC	CGAA	IAGGUGUG	30576
10728	302	CACCUCUC C AUCGAUCC	12202	GGAUCGAU CUGAUGAG	GCCGUUAGGC	CGAA	IAGAGGUG	30577
10729	301	ACCUCUCC A UCGAUCCA	12203	UGGAUCGA CUGAUGAG	GCCGUUAGGC	CGAA	IGAGAGGU	30578
10736	294	CAUCGAUC C AGCACUGC	12204	GCGAUGCU CUGAUGAG	GCCGUUAGGC	CGAA	IAUCGAUG	30579
10737	293	AUCGAUCC A GCACUGCU	12205	AGCAGUGC CUGAUGAG	GCCGUUAGGC	CGAA	IGAUCGAU	30580
10740	290	GAUCCAGC A CUGCUCGG	12206	CCGAGCAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGGAUC	30581
10742	288	UCCAGCAC U GCUCGGGU	12207	ACCCGAGC CUGAUGAG	GCCGUUAGGC	CGAA	IUGCUGGA	30582
10745	285	AGCACUGC U CGGUCGG	12208	CCGACCCG CUGAUGAG	GCCGUUAGGC	CGAA	ICAGUGCU	30583
10757	273	GUCGGAGC A AUUGCUGU	12209	ACAGCAAU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCCGAC	30584
10763	267	GCAAUUGC U GUGAACCU	12210	AGGUUCAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAUUGC	30585
10770	260	CUGUGAAC C UGAAGAAC	12211	GUUCUACA CUGAUGAG	GCCGUUAGGC	CGAA	IUUCACAG	30586
10771	259	UGUGAAC U GAAGAACG	12212	CGUUCUUC CUGAUGAG	GCCGUUAGGC	CGAA	IGUUCACA	30587
10781	249	AAGAACGC C AAGAGAGC	12213	GCUCUCUU CUGAUGAG	GCCGUUAGGC	CGAA	ICGUUCUU	30588
10782	248	AGAACGCC A AGAGAGCC	12214	GGCUCUCU CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCUCU	30589
10790	240	AAGAGAGC C AACACAAA	12215	UUUGUGUU CUGAUGAG	GCCGUUAGGC	CGAA	ICUCUCUU	30590
10791	239	AGAGAGCC A ACACAAAU	12216	AUUUGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IGCUCUCU	30591
10794	236	GAGCCAAC A CAAUUCGU	12217	ACGAUUUG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGGCUC	30592
10796	234	GCCAACAC A AAUCGUAU	12218	AUACGAUU CUGAUGAG	GCCGUUAGGC	CGAA	IUGUUGGC	30593
10809	221	GUAUUGGC C CCUUGCCG	12219	CGGCAAGG CUGAUGAG	GCCGUUAGGC	CGAA	ICCAAUAC	30594
10810	220	UAUUGGCC C CUUGCCGU	12220	ACGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGCCAAUA	30595
10811	219	AUUGGCCC C UUGCCGUC	12221	CAGGGCAA CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCAAU	30596
10812	218	UUGGCCCC U UGCGGUCG	12222	CGACGGCA CUGAUGAG	GCCGUUAGGC	CGAA	IGGCCCAA	30597
10816	214	CCCCUUGC C GUCGAUCA	12223	UGAUCGAC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGGGG	30598
10824	206	CGUCGAUC A GGCUCAAC	12224	GUUGAGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAUCGACG	30599
10828	202	GAUCAGGC U CAACAUAG	12225	CUAUGUUG CUGAUGAG	GCCGUUAGGC	CGAA	ICCUGAUC	30600
10830	200	UCAGGCUC A ACAUAGCC	12226	GGCUAUGU CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCUGA	30601
10833	197	GGCUCAAC A UAGCCUC	12227	GAGGGCUA CUGAUGAG	GCCGUUAGGC	CGAA	IUUGAGCC	30602
10838	192	AACAUAGC C CUCUUCAG	12228	CUGAAGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICUAUGUU	30603
10839	191	ACAUAGCC C UCUCAGU	12229	ACUGAAGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCUAUGU	30604
10840	190	CAUAGCCC U CUUCAGUC	12230	GACUGAAG CUGAUGAG	GCCGUUAGGC	CGAA	IGGCUAUG	30605
10842	188	UAGCCUC U UCAGUCCA	12231	UGGACUGA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGCUA	30606
10845	185	CCCUCUUC A GUCCAUC	12232	GAUUGGAC CUGAUGAG	GCCGUUAGGC	CGAA	IAAGAGGG	30607
10849	181	CUUCAGUC C AAUCAAGG	12233	CCUUGAUU CUGAUGAG	GCCGUUAGGC	CGAA	IACUGAAG	30608
10850	180	UUCAGUCC A AUCAAGGA	12234	UCCUUGAU CUGAUGAG	GCCGUUAGGC	CGAA	IGACUGAA	30609
10854	176	GUCCAUC A AGGACAAC	12235	GUUGUCCU CUGAUGAG	GCCGUUAGGC	CGAA	IAUUGGAC	30610
10860	170	UCAAGGAC A ACACGCGG	12236	CCGCGUGU CUGAUGAG	GCCGUUAGGC	CGAA	IUCCUUGA	30611
10863	167	AGGACAAC A CGCGGGG	12237	GCCCCGCG CUGAUGAG	GCCGUUAGGC	CGAA	IUUGUCCU	30612
10872	158	CGCGGGG A UUCGCGU	12238	ACGCGGAA CUGAUGAG	GCCGUUAGGC	CGAA	ICCCGCG	30613
10876	154	GGGCAUUC C GCGUUUA	12239	UAAAACGC CUGAUGAG	GCCGUUAGGC	CGAA	IAAUGCCC	30614
10887	143	GUUUUAGC A UAUUGACA	12240	UGUCAUA CUGAUGAG	GCCGUUAGGC	CGAA	ICUAAAAC	30615
10895	135	AUAUUGAC A GCCCGGCU	12241	AGCCGGG CUGAUGAG	GCCGUUAGGC	CGAA	IUCAUAU	30616
10898	132	UUGACAGC C CGGUCUU	12242	AAGAGCCG CUGAUGAG	GCCGUUAGGC	CGAA	ICUGUCAA	30617
10899	131	UGACAGCC C GGCUCUUG	12243	CAAGAGCC CUGAUGAG	GCCGUUAGGC	CGAA	IGCUGUCA	30618
10903	127	AGCCCGGC U CUUGCCGG	12244	CCGGCAAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCGGGCU	30619
10905	125	CCCGGCUC U UGCGGGG	12245	GCCCCGCC CUGAUGAG	GCCGUUAGGC	CGAA	IAGCCGGG	30620
10909	121	GCUCUUGC C GGGCCUC	12246	GAGGGCCC CUGAUGAG	GCCGUUAGGC	CGAA	ICAAGAGC	30621
10914	116	UGCCGGG C CUCCUGGU	12247	ACCAGGAG CUGAUGAG	GCCGUUAGGC	CGAA	ICCCGGCA	30622
10915	115	GCCGGGG C UCCUGGUU	12248	AAACAGGA CUGAUGAG	GCCGUUAGGC	CGAA	IGCCGGC	30623
10916	114	CCGGGGCC U CCUGGUUU	12249	AAACAGG CUGAUGAG	GCCGUUAGGC	CGAA	IGGGCCGG	30624
10918	112	GGGCCUC C UGGUUUCU	12250	AGAAACCA CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGCCC	30625
10919	111	GGCCUCC U GGUUUCU	12251	AAGAAACC CUGAUGAG	GCCGUUAGGC	CGAA	IAGGGGCC	30626

Table IX

10926	104	CUGGUUUC U UAGACAUC	12252	GAUGUCUA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAAACCAG	30627
10932	98	UCUUGAGAC A UCGAGAUC	12253	GAUCUCGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUCUAAGA	30628
10941	89	UCGAGAUC U UCGUGCUA	12254	UAGCACGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUCUCGA	30629
10948	82	CUUCGUGC U AAGAAACA	12255	UGUUUCUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICACGAAG	30630
10956	74	UAAGAAAC A GCUCGCAC	12256	GUGCGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUCUUA	30631
10959	71	GAAACAGC U CGCACUGU	12257	ACAGUGCG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGUUUC	30632
10963	67	CAGCUCGC A CUGUGUUA	12258	UAACACAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICGAGCUG	30633
10965	65	GCUCGCAC U GUGUUAU	12259	AUUAACAC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGCGAGC	30634
10985	45	UGUUAUUC C UCACAAAC	12260	GUUUGUGA CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAUUAACA	30635
10986	44	GUUAAUCC U CACAAACA	12261	UGUUUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IGAUUAAC	30636
10988	42	UAAUCCUC A CAAACACU	12262	AGUGUUUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGGAUUA	30637
10990	40	AUCCUCAC A AACACUAC	12263	GUAGUGUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAGGAU	30638
10994	36	UCACAAAC A CUACUAAG	12264	CUUAGUAG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUUUGUGA	30639
10996	34	ACAAACAC U ACUAAGUU	12265	AACUUAGU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUUUGU	30640
10999	31	AACACUAC U AAGUUUGU	12266	ACAAACUU CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUAGUGUU	30641
11009	21	AGUUUGUC A GCUCACAC	12267	GUGUGAGC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IACAAACU	30642
11012	18	UUGUCAGC U CACACAGG	12268	CCUGUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	ICUGACAA	30643
11014	16	GUCAGCUC A CACAGGCG	12269	CGCCUGUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IAGCUGAC	30644
11016	14	CAGCUCAC A CAGGCGAA	12270	UUCGCCUG CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGAGCUG	30645
11018	12	GCUCACAC A GGCGAACU	12271	AGUUCGCC CUGAUGAG	<u>GCCGUUAGGC</u>	CGAA	IUGUGAGC	30646

Input Sequence = AF196835\_rc. Cut Site = CH/.

Arm Length = 8. Core Sequence = CUGAUGAG GCCGUUAGGC CGAA

AF196835\_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table X: WNV minus strand Zinzyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Rz Seq ID
10	11020	GAUCCUGU G UUCUCGCA	12272	UGCGAGAA GCCGAAAGGCGAGUGAGGUCU ACAGGAUC	30647
16	11014	GUGUUCUC G CACCACCA	12273	UGGUGGUG GCCGAAAGGCGAGUGAGGUCU GAGAACAC	30648
25	11005	CACCACCA G CCACCAU	12274	AAUGGUGG GCCGAAAGGCGAGUGAGGUCU UGGUGGUG	30649
34	10996	CCACCAU G UCGGCGCA	12275	UGCGCCGA GCCGAAAGGCGAGUGAGGUCU AAUGGUGG	30650
38	10992	CAUUGUCG G CGCACUGU	12276	ACAGUGCG GCCGAAAGGCGAGUGAGGUCU CGACAAUG	30651
40	10990	UUGUCGGC G CACUGUGC	12277	GCACAGUG GCCGAAAGGCGAGUGAGGUCU GCCGACAA	30652
45	10985	GGCGCACU G UGCCGUGU	12278	ACACGGCA GCCGAAAGGCGAGUGAGGUCU AGUGCGCC	30653
47	10983	CGCACUGU G CCGUGUGG	12279	CCACACGG GCCGAAAGGCGAGUGAGGUCU ACAGUGCG	30654
50	10980	ACUGUGCC G UGUGGUGU	12280	CAGCCACA GCCGAAAGGCGAGUGAGGUCU GGCACAGU	30655
52	10978	UGUGCCGU G UGGCUGGU	12281	ACCAGCCA GCCGAAAGGCGAGUGAGGUCU ACGGCACA	30656
55	10975	GCGGUGUG G CUGGUUGU	12282	ACAACCGA GCCGAAAGGCGAGUGAGGUCU CACACGGC	30657
59	10971	UGUGGUGU G UUGGUCAG	12283	CUGCACAA GCCGAAAGGCGAGUGAGGUCU CAGCCACA	30658
62	10968	GGCUGGUU G UGCAGAGC	12284	GCUCUGCA GCCGAAAGGCGAGUGAGGUCU AACCAGCC	30659
64	10966	CUGGUUGU G CAGAGCAG	12285	CUGCUCUG GCCGAAAGGCGAGUGAGGUCU ACAACCAG	30660
69	10961	UGUGCAGA G CAGAAGAU	12286	AUCUUCUG GCCGAAAGGCGAGUGAGGUCU UCUGCACA	30661
84	10946	AUCUCCUA G UCUAUCCC	12287	GGGAUAGA GCCGAAAGGCGAGUGAGGUCU UAGGAGAU	30662
95	10935	UAUCCAG G UGUCAUA	12288	UAUUGACA GCCGAAAGGCGAGUGAGGUCU CUGGGAUA	30663
97	10933	UCCCAGGU G UCAUAUG	12289	CAUAUUGA GCCGAAAGGCGAGUGAGGUCU ACCUGGGA	30664
105	10925	GUCAUAU G CUGUUUUG	12290	CAAAACAG GCCGAAAGGCGAGUGAGGUCU AUUAUUGA	30665
108	10922	AAUAUGCU G UUUUGUUG	12291	CAACAAA GCCGAAAGGCGAGUGAGGUCU AGCAUAU	30666
113	10917	GCUGUUUU G UUGUGGUG	12292	CACCACAA GCCGAAAGGCGAGUGAGGUCU AAAACAGC	30667
116	10914	GUUUUGUU G UGGUGUUU	12293	AAACACCA GCCGAAAGGCGAGUGAGGUCU AACAAAAC	30668
119	10911	UUGUUGUG G UGUUUUGU	12294	ACAAAACA GCCGAAAGGCGAGUGAGGUCU CACAACAA	30669
121	10909	GUUGUGGU G UUUUGUGG	12295	CCACAAA GCCGAAAGGCGAGUGAGGUCU ACCACAAC	30670
126	10904	GGUGUUUU G UGGCACGG	12296	CCUGCCA GCCGAAAGGCGAGUGAGGUCU AAAACACC	30671
129	10901	GUUUUGUG G CACGGGGU	12297	ACCCGUG GCCGAAAGGCGAGUGAGGUCU CACAAAAC	30672
136	10894	GGCACGGG G UCUCACU	12298	AGUGGAGA GCCGAAAGGCGAGUGAGGUCU CCCGUGCC	30673
153	10877	AACCUCUA G UCCUCCCC	12299	GGGAAGGA GCCGAAAGGCGAGUGAGGUCU UAGAGGUT	30674
172	10858	GACCUACA G CUUCAGUC	12300	GACUGAAG GCCGAAAGGCGAGUGAGGUCU UGAAGGUC	30675
178	10852	CAGCUUCA G UCAGGCUG	12301	CAGCCUGA GCCGAAAGGCGAGUGAGGUCU UGAGCUG	30676
183	10847	UCAGUCAG G CUGGGCCG	12302	CGGCCAG GCCGAAAGGCGAGUGAGGUCU CUGACUGA	30677
188	10842	CAGGCUGG G CCGUGCAC	12303	GUGCACGG GCCGAAAGGCGAGUGAGGUCU CCAGCCUG	30678
191	10839	GCUGGGCC G UGCACUUU	12304	AAAGUGCA GCCGAAAGGCGAGUGAGGUCU GGCCACG	30679
193	10837	UGGGCCGU G CACUUUAA	12305	UUAAAGUG GCCGAAAGGCGAGUGAGGUCU ACGGCCCA	30680
205	10825	UUUAAACC G CGGGGUCU	12306	AGACCCCG GCCGAAAGGCGAGUGAGGUCU GGUUUAAA	30681
210	10820	ACCGCGGG G UCUCUCU	12307	AGAGGAGA GCCGAAAGGCGAGUGAGGUCU CCCGCGGU	30682
227	10803	AACCUCUA G UCCUUCG	12308	CGAAAGGA GCCGAAAGGCGAGUGAGGUCU UAGAGGUU	30683
235	10795	GUCCUUUC G CCCUGGUU	12309	AAACAGGG GCCGAAAGGCGAGUGAGGUCU GAAAGGAC	30684
241	10789	UCGCCUG G UUAACACC	12310	GGUGUUA GCCGAAAGGCGAGUGAGGUCU CAGGGCGA	30685
259	10771	UUACCGGG G CUAGGGCC	12311	GGCCUAG GCCGAAAGGCGAGUGAGGUCU CCCGUUA	30686
265	10765	GGGUAGG G CCGGUGG	12312	CCACGCG GCCGAAAGGCGAGUGAGGUCU CCUAGCCC	30687
268	10762	CUAGGGCC G CGUGGGGC	12313	GCCCCACG GCCGAAAGGCGAGUGAGGUCU GGCCUAG	30688
270	10760	AGGGCCGC G UGGGGCGU	12314	ACGCCCA GCCGAAAGGCGAGUGAGGUCU GCGGCCCU	30689
275	10755	CGCGUGGG G CGUUGGUU	12315	AACCAACG GCCGAAAGGCGAGUGAGGUCU CCCACCG	30690
277	10753	CGUGGGG G UUGGUUUU	12316	CAAAACAA GCCGAAAGGCGAGUGAGGUCU GCCCCACG	30691
281	10749	GGGCGUUG G UUGCCUU	12317	AAGGCAA GCCGAAAGGCGAGUGAGGUCU CAACGCC	30692
285	10745	GUUGGUUU G CCUUUGUU	12318	AAACAAAG GCCGAAAGGCGAGUGAGGUCU AAACCAAC	30693
291	10739	UUGCCUUU G UUAACCCA	12319	UGGGUUA GCCGAAAGGCGAGUGAGGUCU AAAGGCAA	30694
300	10730	UUAACCCA G UCCUCCUG	12320	CAGGAGGA GCCGAAAGGCGAGUGAGGUCU UGGGUUA	30695
311	10719	CUCCUGGG G CACUAUCG	12321	CGAUAGUG GCCGAAAGGCGAGUGAGGUCU CCCAGGAG	30696
319	10711	GCACUAUC G CAGACUGC	12322	GCAGUCUG GCCGAAAGGCGAGUGAGGUCU GAUAGUGC	30697
326	10704	CGCAGACU G CACUCUCC	12323	GGAGAGUG GCCGAAAGGCGAGUGAGGUCU AGUCUGCG	30698
335	10695	CACUCUCC G CAGAGUAG	12324	CUACUCUG GCCGAAAGGCGAGUGAGGUCU GGAGAGUG	30699
340	10690	UCCGAGA G UAGCACGC	12325	GCGUGCUA GCCGAAAGGCGAGUGAGGUCU UCUGCGGA	30700
343	10687	GCAGAGUA G CACGCCGU	12326	ACGGCGUA GCCGAAAGGCGAGUGAGGUCU UACUCUGC	30701
347	10683	AGUAGCAC G CCGUAGCG	12327	CGCUACGG GCCGAAAGGCGAGUGAGGUCU GUGCUACU	30702
350	10680	AGCACGCC G UAGCGUGG	12328	CCACGCUA GCCGAAAGGCGAGUGAGGUCU GCGUGCU	30703
353	10677	ACGCCGUA G CGUGGUCU	12329	AGACCACG GCCGAAAGGCGAGUGAGGUCU UACGGCGU	30704

355	10675	GCCGUAGC G UGGUCUGA	12330	UCAGACCA GCCGAAAGGCGAGUGAGGUCU	GCUACGGC	30705
358	10672	GUAGCGUG G UCUGACAU	12331	AUGUCAGA GCCGAAAGGCGAGUGAGGUCU	CACGCUAC	30706
370	10660	GACAUUGG G CUUUGAAG	12332	CUUCAAG GCCGAAAGGCGAGUGAGGUCU	CCAAUGUC	30707
378	10652	GCUUUGAA G UUACAACA	12333	UGUUGUAA GCCGAAAGGCGAGUGAGGUCU	UUCAAGC	30708
388	10642	UACAACAU G UGGGUCC	12334	GGACCCCA GCCGAAAGGCGAGUGAGGUCU	AUGUUGUA	30709
393	10637	CAUGUGGG G UCCUCU	12335	AAGGAGGA GCCGAAAGGCGAGUGAGGUCU	CCCACAUG	30710
410	10620	CCGAGACG G UUCUGAGG	12336	CCUCAGAA GCCGAAAGGCGAGUGAGGUCU	CGUCUCGG	30711
419	10611	UUCUGAGG G CUUACAUG	12337	CAUGUAAG GCCGAAAGGCGAGUGAGGUCU	CCUCAGAA	30712
437	10593	AUCACUUC G CGGCUUUG	12338	CAAAGCCG GCCGAAAGGCGAGUGAGGUCU	GAAGUGAU	30713
440	10590	ACUUCGCG G CUUUGUUC	12339	GAACAAAG GCCGAAAGGCGAGUGAGGUCU	CGCGAAGU	30714
445	10585	GCGGCUUU G UUCACCCA	12340	UGGGUGAA GCCGAAAGGCGAGUGAGGUCU	AAAGCCGC	30715
454	10576	UUCACCCA G UCCUCCUG	12341	CAGGAGGA GCCGAAAGGCGAGUGAGGUCU	UGGGUGAA	30716
465	10565	CUCUUGG G UUGAGUCG	12342	CGACUCA GCCGAAAGGCGAGUGAGGUCU	CCCAGGAG	30717
470	10560	GGGUGUGA G UCGCAGGC	12343	GCCUGCGA GCCGAAAGGCGAGUGAGGUCU	UCAACCCC	30718
473	10557	GUUGAGUC G CAGGCAGC	12344	GCUGCCUG GCCGAAAGGCGAGUGAGGUCU	GACUCAAC	30719
477	10553	AGUCGCAG G CAGCACCG	12345	CGGUGCUG GCCGAAAGGCGAGUGAGGUCU	CUGCGACT	30720
480	10550	CGCAGGCA G CACCGUCU	12346	AGACGGUG GCCGAAAGGCGAGUGAGGUCU	UGCCUGCG	30721
485	10545	GCAGCACC G UCUACUCA	12347	UGAGUAGA GCCGAAAGGCGAGUGAGGUCU	GGUGCUGC	30722
501	10529	AACUUCG G UGGCGGGA	12348	UCCCGCCA GCCGAAAGGCGAGUGAGGUCU	CGGAAGUU	30723
504	10526	UUCGCGUG G CGGGAACU	12349	AGUUCGCG GCCGAAAGGCGAGUGAGGUCU	CACCGGAA	30724
518	10512	ACUUCGCG G CCUGACUU	12350	AAGUCAG GCCGAAAGGCGAGUGAGGUCU	CGGGAAGU	30725
595	10435	ACUUUAU G CAUACUUA	12351	UAAGUAG GCCGAAAGGCGAGUGAGGUCU	AUAAAAGU	30726
608	10422	CUUAUAU G UCUAUUA	12352	UAAAUAGA GCCGAAAGGCGAGUGAGGUCU	AUAUAAG	30727
637	10393	UAUCUACA G UACUGUGU	12353	ACACAGUA GCCGAAAGGCGAGUGAGGUCU	UGUAGUA	30728
642	10388	ACAGUACU G UGUCCUCA	12354	UGAGGACA GCCGAAAGGCGAGUGAGGUCU	AGUACUGU	30729
644	10386	AGUACUGU G UCCUCAAC	12355	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	ACAGUACU	30730
657	10373	CAACCAA G UUGUGUCU	12356	AGACACAA GCCGAAAGGCGAGUGAGGUCU	UUUGGUUG	30731
660	10370	CCAAGUU G UGUUCUCA	12357	UGAAGACA GCCGAAAGGCGAGUGAGGUCU	AACUUUGG	30732
662	10368	AAAGUUGU G UCUUCAU	12358	UAUGAAGA GCCGAAAGGCGAGUGAGGUCU	ACAACUUU	30733
679	10351	UCUCUUA G UGAACUCA	12359	UGAGUUA GCCGAAAGGCGAGUGAGGUCU	UAAAGAGA	30734
689	10341	GAUCACAU G UAAUCCAC	12360	UGUGAUUA GCCGAAAGGCGAGUGAGGUCU	AUGAGUUC	30735
720	10310	CGAUCAU G CUCUGACU	12361	AGUCAGAG GCCGAAAGGCGAGUGAGGUCU	AUAUUCG	30736
731	10299	CUGACUUG G UUGAUAGC	12362	GCUAUCAA GCCGAAAGGCGAGUGAGGUCU	CAAGUCAG	30737
738	10292	GGUUGAUA G CCACUUGG	12363	CCAGGUGG GCCGAAAGGCGAGUGAGGUCU	UAUCAACC	30738
749	10281	ACCUGGAU G UUUUCUGC	12364	GCAGAAA GCCGAAAGGCGAGUGAGGUCU	AUCCAGGU	30739
756	10274	UGUUUUCU G CCCACUGG	12365	CACGUGGG GCCGAAAGGCGAGUGAGGUCU	AGAAAACA	30740
762	10268	CUGCCAC G UGGCUCGG	12366	CCGAGCCA GCCGAAAGGCGAGUGAGGUCU	GUGGGCAG	30741
765	10265	CCCACUGG G CUCGGGCU	12367	AGCCCGAG GCCGAAAGGCGAGUGAGGUCU	CACGUGGG	30742
771	10259	UGGCUUGG G CUCUUGUG	12368	CACAAGAG GCCGAAAGGCGAGUGAGGUCU	CCGAGCCA	30743
777	10253	GGGCUUUC G UGCCAUC	12369	GAUUGGCA GCCGAAAGGCGAGUGAGGUCU	AAGAGCCC	30744
779	10251	GCUCUUGU G CCAUUCAG	12370	CUGAUUGG GCCGAAAGGCGAGUGAGGUCU	ACAAGAGC	30745
788	10242	CCAUCAG G CUGCCACA	12371	UGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CUGAUUGG	30746
791	10239	AUCAGGCU G CCACACCA	12372	UGGUGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCUGAU	30747
803	10227	CACCAGAU G UCCUCUCG	12373	CGAGAGGA GCCGAAAGGCGAGUGAGGUCU	AUCUGGUG	30748
811	10219	GUCCUCUC G UUUUCCUG	12374	CAGGAAA GCCGAAAGGCGAGUGAGGUCU	GAGAGGAC	30749
830	10200	UAUGGGAC G UCACUCCA	12375	UGGAGUGA GCCGAAAGGCGAGUGAGGUCU	GUCCCAUA	30750
852	10178	CCACUGGG G UUUUGUCU	12376	AGACAAA GCCGAAAGGCGAGUGAGGUCU	CCCAGUGG	30751
857	10173	GGGUGUUU G UCUUCCAU	12377	AUGGAAGA GCCGAAAGGCGAGUGAGGUCU	AAAACCCC	30752
893	10137	CAAACACG G UCCAGAC	12378	GUCUGGAA GCCGAAAGGCGAGUGAGGUCU	CGUGUUUG	30753
911	10119	UCCAACAU G UCCUCUGU	12379	ACAGAGGA GCCGAAAGGCGAGUGAGGUCU	AUGUUGGA	30754
918	10112	UGUCCUCU G UUGUCAUC	12380	GAUGACAA GCCGAAAGGCGAGUGAGGUCU	AGAGGACA	30755
921	10109	CCUCUGUU G UCAUCCAC	12381	GUGGAUGA GCCGAAAGGCGAGUGAGGUCU	AACAGAGG	30756
939	10091	CUCUCCU G CAUGGAUG	12382	CAUCCAUG GCCGAAAGGCGAGUGAGGUCU	AGGAGGAG	30757
954	10076	UGGACCAC G UGGUUCU	12383	AAGAACCA GCCGAAAGGCGAGUGAGGUCU	GUGGUCCA	30758
957	10073	ACCACUGG G UUCUCCG	12384	CGGAAGAA GCCGAAAGGCGAGUGAGGUCU	CACGUGGU	30759
966	10064	UUCUCCG G UAGGGACC	12385	UGUCCUA GCCGAAAGGCGAGUGAGGUCU	CGGAAGAA	30760
990	10040	CAGGACA G CGGAGCAA	12386	UGUCUCCG GCCGAAAGGCGAGUGAGGUCU	UGUCCUG	30761
995	10035	ACAGCGGA G CAAUUGGC	12387	GCCAUUUG GCCGAAAGGCGAGUGAGGUCU	UGCGUGU	30762
1002	10028	AGCAAUG G CGUUGGCC	12388	GGCCAACG GCCGAAAGGCGAGUGAGGUCU	CAUUUGCU	30763
1004	10026	CAAUUGG G UUGGCCAU	12389	AUGGCCAA GCCGAAAGGCGAGUGAGGUCU	GCCAUUUG	30764
1008	10022	UGGCGUUG G CCAUGAGC	12390	GCUCAUG GCCGAAAGGCGAGUGAGGUCU	CAACGCCA	30765
1015	10015	GGCCAUGA G CCGCAGGU	12391	ACCUGCG GCCGAAAGGCGAGUGAGGUCU	UCAUGGCC	30766

Table X

1018	10012	CAUGAGCC G CAGGUCUC	12392	GAGACCUG	GCCGAAAGGCGAGUGAGGUCU	GGCUCAUG	30767
1022	10008	AGCCGCAG G UCUCUUCU	12393	AGAAGAGA	GCCGAAAGGCGAGUGAGGUCU	CUGCGGCU	30768
1031	9999	UCUCUUCU G UGGAAGUA	12394	UACUUCUA	GCCGAAAGGCGAGUGAGGUCU	AGAAGAGA	30769
1037	9993	CUGUGGAA G UACAGAAG	12395	CUUCUGUA	GCCGAAAGGCGAGUGAGGUCU	UUCCACAG	30770
1045	9985	GUACAGAA G CAGCCACA	12396	UGUGGCUG	GCCGAAAGGCGAGUGAGGUCU	UUCUGUAC	30771
1048	9982	CAGAAGCA G CCACAUCU	12397	AGAUGUGG	GCCGAAAGGCGAGUGAGGUCU	UGCUUCUG	30772
1059	9971	ACAUCUGG G CAUAAGAC	12398	GUCUUAUG	GCCGAAAGGCGAGUGAGGUCU	CCAGAUGU	30773
1071	9959	AAGACUUA G CCAGACAA	12399	UUGUCUGG	GCCGAAAGGCGAGUGAGGUCU	UAAGUCUU	30774
1080	9950	CCAGACAA G CAGUGUCG	12400	CGACACUG	GCCGAAAGGCGAGUGAGGUCU	UUGUCUGG	30775
1083	9947	GACAAGCA G UGUCCGG	12401	CCGCGACA	GCCGAAAGGCGAGUGAGGUCU	UGCUUGUC	30776
1085	9945	CAAGCAGU G UCGCGGAC	12402	GUCCGCGA	GCCGAAAGGCGAGUGAGGUCU	ACUGCUUG	30777
1088	9942	GCAGUGUC G CGGACGUU	12403	AACGUCCG	GCCGAAAGGCGAGUGAGGUCU	GACACUGC	30778
1094	9936	UCGCGGAC G UUCCAUC	12404	GGAUGGAA	GCCGAAAGGCGAGUGAGGUCU	GUCCGCGA	30779
1104	9926	UCCAUCUG G CCCUGGA	12405	UCCAGGGG	GCCGAAAGGCGAGUGAGGUCU	CGGAUGGA	30780
1118	9912	GGAGAUUA G CGAGCUCU	12406	AGAGCUCG	GCCGAAAGGCGAGUGAGGUCU	AUAUCUCC	30781
1122	9908	AUAUGCGA G CUCUGCCU	12407	AGGCAGAG	GCCGAAAGGCGAGUGAGGUCU	UCGCAUAU	30782
1127	9903	CGAGCUCU G CCUACCAA	12408	UUGGUAGG	GCCGAAAGGCGAGUGAGGUCU	AGAGCUCG	30783
1144	9886	UUAUCCU G UCCUCGGC	12409	GCCGAGGA	GCCGAAAGGCGAGUGAGGUCU	AGGAUGAA	30784
1151	9879	UGUCCUCG G CAUGGAAC	12410	GUUCCAUG	GCCGAAAGGCGAGUGAGGUCU	CGAGGACA	30785
1165	9865	AACCACCA G UGUUUCU	12411	GAAGAACA	GCCGAAAGGCGAGUGAGGUCU	UGGUGGUU	30786
1167	9863	CCACCAGU G UUCUUCUA	12412	UGGAAGAA	GCCGAAAGGCGAGUGAGGUCU	ACUGGUGG	30787
1194	9836	UCAAUUCA G UGAAUUGG	12413	CCAUAUCA	GCCGAAAGGCGAGUGAGGUCU	UGAAUUGA	30788
1202	9828	GUGAAUUG G UUUGAGCA	12414	UGCUCAAA	GCCGAAAGGCGAGUGAGGUCU	CAUUAUCAC	30789
1208	9822	UGGUUUGA G CAAAUUGG	12415	CCAUAUUG	GCCGAAAGGCGAGUGAGGUCU	UCAAACCA	30790
1222	9808	UGGAACCU G CUGCCAUA	12416	AUUGGCAG	GCCGAAAGGCGAGUGAGGUCU	AGGUUCCA	30791
1225	9805	AACCUGCU G CCAUAUCA	12417	AUGAUUGG	GCCGAAAGGCGAGUGAGGUCU	AGCAGGUU	30792
1242	9788	ACCAUCCA G UUGACGGU	12418	ACGCUCAA	GCCGAAAGGCGAGUGAGGUCU	UGGAUGGU	30793
1249	9781	AGUUGACG G UUUCCACU	12419	AGUGGAAA	GCCGAAAGGCGAGUGAGGUCU	CGUAACU	30794
1265	9765	UCUUGGAU G UCUUUGCG	12420	CGCAAAGA	GCCGAAAGGCGAGUGAGGUCU	AUCCAAGA	30795
1271	9759	AUGUCUUU G CGAACCUU	12421	AAGGUUCG	GCCGAAAGGCGAGUGAGGUCU	AAAGACAU	30796
1287	9743	UUGACAUU G CAUUGAGG	12422	CCUCAUUG	GCCGAAAGGCGAGUGAGGUCU	UAUGUCAA	30797
1298	9732	UUGAGGAA G UGGAGCGA	12423	UCGCUCCA	GCCGAAAGGCGAGUGAGGUCU	UCCUCUAA	30798
1303	9727	GAAGUGGA G CGAGGUGG	12424	CCACCUCG	GCCGAAAGGCGAGUGAGGUCU	UCCACUUC	30799
1308	9722	GGAGCGAG G UGGCAAAG	12425	CUUUGCCA	GCCGAAAGGCGAGUGAGGUCU	CUCGCUC	30800
1311	9719	GCGAGGUG G CAAAGCGA	12426	UCGCUUUG	GCCGAAAGGCGAGUGAGGUCU	CACCUCCG	30801
1316	9714	GUGGCAAA G CGAUCGUC	12427	GACGAUCG	GCCGAAAGGCGAGUGAGGUCU	UUUGCCAC	30802
1322	9708	AAGCGAUC G UCCAGGGG	12428	CCCUUGGA	GCCGAAAGGCGAGUGAGGUCU	GAUCGCUU	30803
1330	9700	GUCCAGGG G CUUUAACA	12429	UGGUAAAG	GCCGAAAGGCGAGUGAGGUCU	CCUUGGAC	30804
1343	9687	ACCACACA G UCAUCUCC	12430	GGAGAUGA	GCCGAAAGGCGAGUGAGGUCU	UGUGUGGU	30805
1359	9671	CACUGACA G CCAUCGCG	12431	CCGCAUGG	GCCGAAAGGCGAGUGAGGUCU	UGUCAGUG	30806
1364	9666	ACAGCCAU G CGGUCGAG	12432	CUCAGCCG	GCCGAAAGGCGAGUGAGGUCU	AUGGCUGU	30807
1367	9663	GCCAUGCG G CUGAGUCU	12433	AGACUCAG	GCCGAAAGGCGAGUGAGGUCU	CGCAUGGC	30808
1372	9658	GCGGCTGA G UCUUUCUU	12434	AAGAAAGA	GCCGAAAGGCGAGUGAGGUCU	UCAGCCCG	30809
1396	9634	CUCAAACA G CCAGGUCC	12435	GGACCUUG	GCCGAAAGGCGAGUGAGGUCU	UGUUUGAG	30810
1401	9629	ACAGCCAG G UCCUGACU	12436	AGUCAAGG	GCCGAAAGGCGAGUGAGGUCU	CUUGCUGU	30811
1414	9616	GACUUGG G UCCUUCU	12437	GGAAAGGA	GCCGAAAGGCGAGUGAGGUCU	CCAAGUUC	30812
1428	9602	UCCCUUUU G UGAGUUUC	12438	GAAACTUA	GCCGAAAGGCGAGUGAGGUCU	AAAAGGGA	30813
1432	9598	UUUUGUGA G UUUCUCCA	12439	UGGAGAAA	GCCGAAAGGCGAGUGAGGUCU	UCACAAAA	30814
1451	9579	UCAUCUGG G CCAUUCAC	12440	GUGAUUGG	GCCGAAAGGCGAGUGAGGUCU	CCAGAUGA	30815
1486	9544	CCUCACCA G CUGGACGG	12441	CCGUCCAG	GCCGAAAGGCGAGUGAGGUCU	UGGUGAGG	30816
1494	9536	GCUGGACG G CCAGGUUG	12442	CAACCUUG	GCCGAAAGGCGAGUGAGGUCU	CGUCCAGC	30817
1499	9531	ACGGCCAG G UUGGUGAA	12443	UUCACCAA	GCCGAAAGGCGAGUGAGGUCU	CUGGCCGU	30818
1503	9527	CCAGGUUG G UGAAAGUG	12444	CACUUUCA	GCCGAAAGGCGAGUGAGGUCU	CAACCUUG	30819
1509	9521	UGGUGAAA G UGUUAGG	12445	CCUAAACA	GCCGAAAGGCGAGUGAGGUCU	UUUACCA	30820
1511	9519	GUGAAAGU G UUUAGGGC	12446	GCCCUAAA	GCCGAAAGGCGAGUGAGGUCU	ACUUUCAC	30821
1518	9512	UGUUUAGG G CGUAGGUG	12447	CACCUACG	GCCGAAAGGCGAGUGAGGUCU	CCUAAACA	30822
1520	9510	UUUAGGGC G UAGGUGAC	12448	GUCACCUA	GCCGAAAGGCGAGUGAGGUCU	GCCCUAAA	30823
1524	9506	GGGCGUAG G UGACAACU	12449	AGUUUGUA	GCCGAAAGGCGAGUGAGGUCU	CUACGCC	30824
1534	9496	GACAACUU G UCCACUCC	12450	GGAGUGGA	GCCGAAAGGCGAGUGAGGUCU	AAGUUGUC	30825
1578	9452	CCAUGACG G UUCUUCUA	12451	UGGAAGAA	GCCGAAAGGCGAGUGAGGUCU	CGUCAUGG	30826
1590	9440	UUCUAUCA G CAGCCGGG	12452	CCCGGUCG	GCCGAAAGGCGAGUGAGGUCU	UGAUGGAA	30827
1593	9437	CAUCAGCA G CCGGCGC	12453	GCGCCCGG	GCCGAAAGGCGAGUGAGGUCU	UGCUGAUG	30828

1598	9432	GCAGCCGG G CGCAUCAC	12454	GUGAUGCG GCCGAAAGGCGAGUGAGGUCU	CCGGCUGC	30829
1600	9430	AGCCGGGC G CAUCACUU	12455	AAGUGAUG GCCGAAAGGCGAGUGAGGUCU	GCCCGGCU	30830
1619	9411	ACAACUUU G UGACGAUA	12456	UAUCGUCA GCCGAAAGGCGAGUGAGGUCU	AAAGUUGU	30831
1629	9401	GACGAUAG G UGAGCUCA	12457	UGAGCUCA GCCGAAAGGCGAGUGAGGUCU	CUAUCGUC	30832
1633	9397	AUAGGUGA G CUCAAUGA	12458	UCAUUGAG GCCGAAAGGCGAGUGAGGUCU	UCACCUAU	30833
1644	9386	CAAUGAUG G CCUGGCA	12459	UGCCAGGG GCCGAAAGGCGAGUGAGGUCU	CAUCAUUG	30834
1650	9380	UGGCCCUG G CAAGACGC	12460	GCGUCUUG GCCGAAAGGCGAGUGAGGUCU	CAGGGCCA	30835
1657	9373	GGCAAGAC G CCGAUGUU	12461	AACAUCGG GCCGAAAGGCGAGUGAGGUCU	GUCUUGCC	30836
1663	9367	ACGCCGAU G UUCCCCAU	12462	AUGGGGAA GCCGAAAGGCGAGUGAGGUCU	AUCGGCGU	30837
1675	9355	CCCAUCAA G CAGCUCAA	12463	UUGAGCUG GCCGAAAGGCGAGUGAGGUCU	UUGAUGGG	30838
1678	9352	AUCAAGCA G CUCAAGCA	12464	UGCUUGAG GCCGAAAGGCGAGUGAGGUCU	UGCUUGAU	30839
1684	9346	CAGCUCAA G CACCUUAG	12465	CUAAGGUG GCCGAAAGGCGAGUGAGGUCU	UUGAGCUG	30840
1692	9338	GCACCUUA G CUUCAUUU	12466	AAAUGAAG GCCGAAAGGCGAGUGAGGUCU	UAAGGUGC	30841
1706	9324	UUUUCCAA G UCAGCUCU	12467	AGAGCUGA GCCGAAAGGCGAGUGAGGUCU	UUGGAAAA	30842
1710	9320	CCAAGUCA G CUCUCGUG	12468	CACGAGAG GCCGAAAGGCGAGUGAGGUCU	UGACUUGG	30843
1716	9314	CAGCUCUC G UGAUGCGG	12469	CCGCAUCA GCCGAAAGGCGAGUGAGGUCU	GAGAGCUG	30844
1721	9309	CUCGUGAU G CGGGUGUC	12470	GACACCCG GCCGAAAGGCGAGUGAGGUCU	AUCACGAG	30845
1725	9305	UGAUGCGG G UGUCCCAG	12471	CUGGGACA GCCGAAAGGCGAGUGAGGUCU	CCGCAUCA	30846
1727	9303	AUGCGGGU G UCCCAGCC	12472	GGCUGGGA GCCGAAAGGCGAGUGAGGUCU	ACCCGCAU	30847
1733	9297	GUGUCCCA G CCAGCUGU	12473	ACAGCUGG GCCGAAAGGCGAGUGAGGUCU	UGGGACAC	30848
1737	9293	CCCAGCCA G CUGUGUCA	12474	UGACACAG GCCGAAAGGCGAGUGAGGUCU	UGGCGUGG	30849
1740	9290	AGCCAGCU G UGUCAUCA	12475	UGAUGACA GCCGAAAGGCGAGUGAGGUCU	AGCUGGCU	30850
1742	9288	CCAGCUGU G UCAUCAGC	12476	GTUGAUGA GCCGAAAGGCGAGUGAGGUCU	ACAGCUGG	30851
1749	9281	UGUCAUCA G CAUAGAUC	12477	GAUCUAUG GCCGAAAGGCGAGUGAGGUCU	UGAUGACA	30852
1760	9270	UGAUCUUU G CCCCAGG	12478	CCUGGGGG GCCGAAAGGCGAGUGAGGUCU	AAGAUCUA	30853
1768	9262	GCCCCCAG G CCGGGUGC	12479	GCACCCCG GCCGAAAGGCGAGUGAGGUCU	CUGGGGGC	30854
1773	9257	CAGGCCGG G UGCCAACU	12480	AGUUGGCA GCCGAAAGGCGAGUGAGGUCU	CCGGCCUG	30855
1775	9255	GGCCGGGU G CCAACUUC	12481	GAAGUUGG GCCGAAAGGCGAGUGAGGUCU	ACCCGGCC	30856
1786	9244	AACUUCAC G CAGGAUGU	12482	ACAUCCUG GCCGAAAGGCGAGUGAGGUCU	GUGAAGUU	30857
1793	9237	CGCAGGAU G UAACCCAG	12483	CUGGGUUA GCCGAAAGGCGAGUGAGGUCU	AUCCUGCG	30858
1801	9229	GUAACCCA G UUUUUGGA	12484	UCCAAAAA GCCGAAAGGCGAGUGAGGUCU	UGGGUUAU	30859
1811	9219	UUUUGGAG G CCAAGCC	12485	GGCUUGGG GCCGAAAGGCGAGUGAGGUCU	CUCCAAAA	30860
1817	9213	AGGCCCAA G CCCUCGAC	12486	GUCGAGGG GCCGAAAGGCGAGUGAGGUCU	UUGGGCCU	30861
1838	9192	CCUCCUGA G UUCUUUCU	12487	AGAAAGAA GCCGAAAGGCGAGUGAGGUCU	UCAGGAGG	30862
1852	9178	UCUUCCAA G CCAGUGGU	12488	ACCACUGG GCCGAAAGGCGAGUGAGGUCU	UUGGAAGA	30863
1856	9174	CCAAGCCA G UGGUCUUC	12489	GAAGACCA GCCGAAAGGCGAGUGAGGUCU	UGGCUUGG	30864
1859	9171	AGCCAGUG G UCUUCAUU	12490	AAUGAAGA GCCGAAAGGCGAGUGAGGUCU	CACUUGCU	30865
1881	9149	AACCAGAA G CCUCGAAC	12491	GUUCGAGG GCCGAAAGGCGAGUGAGGUCU	UCUGGUUU	30866
1898	9132	UCCAGAAA G CGAGCUCC	12492	GGAGCUCG GCCGAAAGGCGAGUGAGGUCU	UUUCUGGA	30867
1902	9128	GAAAGCGA G CUCCGAGC	12493	GCUCGGAG GCCGAAAGGCGAGUGAGGUCU	UCGCUUUC	30868
1909	9121	AGCUCCGA G CCACAUGA	12494	UCAUGUGG GCCGAAAGGCGAGUGAGGUCU	UCGGAGCU	30869
1926	9104	ACCAAAUU G CUCUGCUU	12495	AAGCAGAG GCCGAAAGGCGAGUGAGGUCU	CAUUGGUU	30870
1931	9099	AUGGCUCU G CUUCCCUU	12496	AAGGGAAG GCCGAAAGGCGAGUGAGGUCU	AGAGCCAU	30871
1941	9089	UUCCCUUG G CCUUUCCG	12497	CGGAAAGG GCCGAAAGGCGAGUGAGGUCU	CAAGGGAA	30872
1960	9070	CUCUCCGG G UUUUUUCU	12498	AGAAAAAA GCCGAAAGGCGAGUGAGGUCU	CCGGAGAG	30873
1985	9045	CCCAUCAU G UUGUAAAU	12499	AUUUACAA GCCGAAAGGCGAGUGAGGUCU	AUGAUGGG	30874
1988	9042	AUCAUGUU G UAAAUUGA	12500	UGCAUUUA GCCGAAAGGCGAGUGAGGUCU	AACAUGAU	30875
1994	9036	UUGUAAAU G CAAGUGUG	12501	CACACUUG GCCGAAAGGCGAGUGAGGUCU	AUUUACAA	30876
1998	9032	AAAUUGCA G UGUGACAU	12502	AUGUCACA GCCGAAAGGCGAGUGAGGUCU	UUGCAUUU	30877
2000	9030	AUGCAAGU G UGACAUUC	12503	GAAUGUCA GCCGAAAGGCGAGUGAGGUCU	ACUUGCAU	30878
2014	9016	UUCCCCC G CAGAUUGU	12504	CACAUCUG GCCGAAAGGCGAGUGAGGUCU	GGGGGGAA	30879
2020	9010	CCGCAGAU G UGCCUCGC	12505	GCGAGGCA GCCGAAAGGCGAGUGAGGUCU	AUCUGCGG	30880
2022	9008	GCAGAUGU G CCUCGCGC	12506	GCGCGAGG GCCGAAAGGCGAGUGAGGUCU	ACAUCUGC	30881
2027	9003	UGUGCCUC G CGCUCCUC	12507	GAGGAGCG GCCGAAAGGCGAGUGAGGUCU	GAGGCACA	30882
2029	9001	UGCCUCGC G CUCCUCAU	12508	AUGAGGAG GCCGAAAGGCGAGUGAGGUCU	GCGAGGCA	30883
2070	8960	CUUCAACU G CUUCUCUG	12509	CAGAGAAG GCCGAAAGGCGAGUGAGGUCU	AGUUGAAG	30884
2079	8951	CUUCUCUG G CGCUCCUC	12510	GAGGAGCG GCCGAAAGGCGAGUGAGGUCU	CAGAGAAG	30885
2081	8949	UCUCUGGC G CUCCUCCA	12511	UGGAGGAG GCCGAAAGGCGAGUGAGGUCU	GCCAGAGA	30886
2098	8932	UUGAUUCU G CUCUUCAA	12512	UUGAAGAG GCCGAAAGGCGAGUGAGGUCU	AGAAUCAA	30887
2112	8918	CAAACAUG G CACCCAAA	12513	UUUGGGUG GCCGAAAGGCGAGUGAGGUCU	CAUGUUUG	30888
2121	8909	CACCCAAA G CUGCAUUG	12514	CAAUGCAG GCCGAAAGGCGAGUGAGGUCU	UUUGGGUG	30889
2124	8906	CCAAGGCU G CAUUGCUG	12515	CAGCAAUG GCCGAAAGGCGAGUGAGGUCU	AGCUUUGG	30890

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2129	8901	GCUGCAUU G CUGUUGAC	12516	GUCAACAG GCCGAAAGGCGAGUGAGGUCU	AAUGCAGC	30891
2132	8898	GCAUUGCU G UUGACCUU	12517	AAGGUCAA GCCGAAAGGCGAGUGAGGUCU	AGCAAUGC	30892
2162	8868	UCUCGAGA G CACAUCUU	12518	AGAAUGUG GCCGAAAGGCGAGUGAGGUCU	UCUCGAGA	30893
2176	8854	UCUGGGAC G UUUUUCUC	12519	GAGAAAAA GCCGAAAGGCGAGUGAGGUCU	GUCCGAGA	30894
2187	8843	UUUCUCUG G CCAAAAAC	12520	GUUUUUGG GCCGAAAGGCGAGUGAGGUCU	CAGAGAAA	30895
2196	8834	CCAAAAAC G CCCACAAC	12521	GUUGUGGG GCCGAAAGGCGAGUGAGGUCU	GUUUUUGG	30896
2207	8823	CACAACCA G UUGGUGGU	12522	ACCACAA G GCCGAAAGGCGAGUGAGGUCU	UGGUUUGG	30897
2211	8819	ACCAUUG G UGGUCUCA	12523	UGAGACCA GCCGAAAGGCGAGUGAGGUCU	CAACUGGU	30898
2214	8816	AGUUGGUG G UCUCAUUG	12524	CAAUGAGA GCCGAAAGGCGAGUGAGGUCU	CACCAACU	30899
2224	8806	CUCAUGA G CACGUACU	12525	AGUACGUG GCCGAAAGGCGAGUGAGGUCU	UCAUUGAG	30900
2228	8802	UUGAGCAC G UACUUCAC	12526	GUGAAGUA GCCGAAAGGCGAGUGAGGUCU	GUGUCUAA	30901
2245	8785	UCCUUCUG G CGGUUCAG	12527	CUGAACCG GCCGAAAGGCGAGUGAGGUCU	CAGAAGGA	30902
2248	8782	UUCUGGCG G UUCAGGAG	12528	CUCCUGAA GCCGAAAGGCGAGUGAGGUCU	CGCCAGAA	30903
2256	8774	GUUCAGGA G CUUUCGUG	12529	CACGAAAG GCCGAAAGGCGAGUGAGGUCU	UCCUGAAC	30904
2262	8768	GAGCUUUC G UGUCCACC	12530	GGUGGACA GCCGAAAGGCGAGUGAGGUCU	GAAAGCUC	30905
2264	8766	GCUUUCGU G UCCACCUU	12531	AAGGUGGA GCCGAAAGGCGAGUGAGGUCU	ACGAAAGC	30906
2287	8743	GAACACUC G CUGCUGCC	12532	GGCAGCAG GCCGAAAGGCGAGUGAGGUCU	GAGUGUUC	30907
2290	8740	CACUCGCU G CUGCCCGA	12533	UCGGGCGA GCCGAAAGGCGAGUGAGGUCU	AGCGAGUG	30908
2293	8737	UCGCGUCU G CCCGAAGG	12534	CCUUCGGG GCCGAAAGGCGAGUGAGGUCU	AGCAGCGA	30909
2304	8726	CGAAGGGA G UAGUGUCA	12535	UGACACUA GCCGAAAGGCGAGUGAGGUCU	UCCCUUCG	30910
2307	8723	AGGGAGUA G UGUCAGUC	12536	GACUGACA GCCGAAAGGCGAGUGAGGUCU	UACUCCCU	30911
2309	8721	GGAGUAGU G UCAGUCAU	12537	AUGACUGA GCCGAAAGGCGAGUGAGGUCU	ACUACUCC	30912
2313	8717	UAGUGUCA G UCAUUGGC	12538	GGCCAUGA GCCGAAAGGCGAGUGAGGUCU	UGACACUA	30913
2319	8711	CAGUCAUG G CCAUUGGUG	12539	CACCAUGG GCCGAAAGGCGAGUGAGGUCU	CAUGACUG	30914
2325	8705	UGGCCAUG G UGGUAACA	12540	UGUUAACA GCCGAAAGGCGAGUGAGGUCU	CAUGGCCA	30915
2328	8702	CCAUGGUG G UAACAUCU	12541	GAAUGUUA GCCGAAAGGCGAGUGAGGUCU	CACCAUGG	30916
2337	8693	UAACAUCU G UGAUGGUG	12542	CACCAUGA GCCGAAAGGCGAGUGAGGUCU	GAUUGUUA	30917
2343	8687	UCGUGAUG G UGUCCCAU	12543	AUGGGACA GCCGAAAGGCGAGUGAGGUCU	CAUCACGA	30918
2345	8685	GUGAUGGU G UCCCAUGG	12544	CCAUGGGA GCCGAAAGGCGAGUGAGGUCU	ACCAUCAC	30919
2353	8677	GUCCAUG G UUUUGAGA	12545	UCUCAAAA GCCGAAAGGCGAGUGAGGUCU	CAUGGGAC	30920
2365	8665	UGAGAGGA G CCUGACCA	12546	UGGUACGG GCCGAAAGGCGAGUGAGGUCU	UCCUCUCA	30921
2386	8644	AUUGACCA G CGAACUGG	12547	CCAGUUCG GCCGAAAGGCGAGUGAGGUCU	UGGUCAAU	30922
2394	8636	GCGAACUG G CGGAGCCU	12548	AGGCUCGG GCCGAAAGGCGAGUGAGGUCU	CAGUUCGC	30923
2399	8631	CUGGCGGA G CCUGUGGG	12549	CCCACAGG GCCGAAAGGCGAGUGAGGUCU	UCCGCCAG	30924
2403	8627	CGGAGCCU G UGGGUUC	12550	GAAGCCCA GCCGAAAGGCGAGUGAGGUCU	AGGCUCGG	30925
2407	8623	GCCUGUGG G CUUCACAU	12551	AUGUGAAG GCCGAAAGGCGAGUGAGGUCU	CCACAGGC	30926
2423	8607	UCAUAACU G CCGUGAUA	12552	UAUCACGG GCCGAAAGGCGAGUGAGGUCU	AGUUAUGA	30927
2426	8604	UAACUGCC G UGAUAGUU	12553	AACUAUCA GCCGAAAGGCGAGUGAGGUCU	GGCAGUUA	30928
2432	8598	CCGUGAUA G UCCAGGU	12554	ACCUGGAA GCCGAAAGGCGAGUGAGGUCU	UAUCACGG	30929
2439	8591	AGUUCAG G UUCUAUAU	12555	AUAUAGAA GCCGAAAGGCGAGUGAGGUCU	CUGGAACU	30930
2450	8580	CUAUAUGG G UGGUUCUC	12556	GAGAACCA GCCGAAAGGCGAGUGAGGUCU	CCAUAUAG	30931
2453	8577	UAUGGGUG G UUCUCAUC	12557	GAUGAGAA GCCGAAAGGCGAGUGAGGUCU	CACCAUAU	30932
2462	8568	UUCUCAUC G UGGUGCCA	12558	UGGCACCA GCCGAAAGGCGAGUGAGGUCU	GAUGAGAA	30933
2465	8565	UAUCUGUG G UGCCACGU	12559	ACGUUGGA GCCGAAAGGCGAGUGAGGUCU	CACGAUGA	30934
2467	8563	AUCGUGGU G CCACGUG	12560	CGACUGGG GCCGAAAGGCGAGUGAGGUCU	ACCACGAU	30935
2472	8558	GGUGCCAC G UCGAACUG	12561	CAGUUCGA GCCGAAAGGCGAGUGAGGUCU	UGGCACCC	30936
2480	8550	GUCGAACU G UACUCACG	12562	CGUGAGUA GCCGAAAGGCGAGUGAGGUCU	AGUUCGAC	30937
2488	8542	GUACUCAC G CCUGAGUC	12563	GACUCAGG GCCGAAAGGCGAGUGAGGUCU	GUGAGUAC	30938
2494	8536	ACGCCUGA G UCGUUCAA	12564	UUGAACGA GCCGAAAGGCGAGUGAGGUCU	UCAGGCGU	30939
2497	8533	CCUGAGUC G UUCAAUCC	12565	GGAUUGAA GCCGAAAGGCGAGUGAGGUCU	GACUCAGG	30940
2507	8523	UCAAUCCU G UUCUUGAU	12566	AUCAAGAA GCCGAAAGGCGAGUGAGGUCU	AGGAUUGA	30941
2523	8507	UUUUAUCG G UGUUGAG	12567	CUCAGACA GCCGAAAGGCGAGUGAGGUCU	UUAUAAAA	30942
2525	8505	UUACUGGU G UCUGAGUU	12568	AACUCAGA GCCGAAAGGCGAGUGAGGUCU	ACCAGUAA	30943
2531	8499	GUGUCUGA G UUGAGCAG	12569	CUGUCUAA GCCGAAAGGCGAGUGAGGUCU	UCAGACAC	30944
2536	8494	UGAGUUGA G CAGGGGUU	12570	AACCCCUG GCCGAAAGGCGAGUGAGGUCU	UCAACUCA	30945
2542	8488	GAGCAGGG G UUUUCCCA	12571	UGGGAAAA GCCGAAAGGCGAGUGAGGUCU	CCUUCGUC	30946
2553	8477	UCCCCACC G CCUGGUU	12572	AACCAGGG GCCGAAAGGCGAGUGAGGUCU	GGUGGGAA	30947
2559	8471	CCGCCUGG G UUCCACUU	12573	AAGUGGAA GCCGAAAGGCGAGUGAGGUCU	CAGGCGGG	30948
2573	8457	CUUCCCAA G UUUACAUC	12574	GAUGUAAA GCCGAAAGGCGAGUGAGGUCU	UUGGGAAG	30949
2588	8442	UCUUCUC G UAUUGGGG	12575	CCCCAAUA GCCGAAAGGCGAGUGAGGUCU	GAGGAAGA	30950
2596	8434	GAUUGGG G UCCCUUCC	12576	GGAGGGGA GCCGAAAGGCGAGUGAGGUCU	CCCAUAC	30951
2607	8423	CCUUCAG G UCCUUUUU	12577	AAAAAGGA GCCGAAAGGCGAGUGAGGUCU	CUGGAAGG	30952

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2632	8398	UCCUAGGA G CACCUGGC	12578	GCCAGGUG GCCGAAAGGCGAGUGAGGUCU	UCCUAGGA	30953
2639	8391	AGCACCUG G CUGGUCAU	12579	AUGACCAG GCCGAAAGGCGAGUGAGGUCU	CAGGUGCU	30954
2643	8387	CCUGGCUG G UCAUAUUC	12580	GAUAUGA GCCGAAAGGCGAGUGAGGUCU	CAGCCAGG	30955
2659	8371	CACUGAAU G UACCACAU	12581	AUGUGUA GCCGAAAGGCGAGUGAGGUCU	AUUCAGUG	30956
2669	8361	ACCACAUU G CCUGAGC	12582	GUUCAGG GCCGAAAGGCGAGUGAGGUCU	AAUGUGGU	30957
2676	8354	UGCCUGAA G CUCGACUC	12583	GAGUCGAG GCCGAAAGGCGAGUGAGGUCU	UUCAGGCA	30958
2699	8331	UACAUCUC G UGCGUGGA	12584	UCCACGCA GCCGAAAGGCGAGUGAGGUCU	GAGAUGUA	30959
2701	8329	CAUCUCGU G CGUGGAAU	12585	AUUCACG GCCGAAAGGCGAGUGAGGUCU	ACGAGAUG	30960
2703	8327	UCUCGUGC G UGGAUUC	12586	GAAUUCGA GCCGAAAGGCGAGUGAGGUCU	GCACGAGA	30961
2713	8317	GGAAUUC G UGAGAGUG	12587	CACUCUA GCCGAAAGGCGAGUGAGGUCU	GGAAUUC	30962
2719	8311	CCGUGAGA G UGGGUUUC	12588	GAAACCCA GCCGAAAGGCGAGUGAGGUCU	UCUCACGG	30963
2723	8307	GAGAGUGG G UUCUGAC	12589	GUCAGAAA GCCGAAAGGCGAGUGAGGUCU	CCACUCUC	30964
2734	8296	UCUGACCA G UCCCCCCC	12590	GGGGGGGA GCCGAAAGGCGAGUGAGGUCU	UGGUCAGA	30965
2750	8280	CCAUAACG G CGUUGGAG	12591	CUCCAACG GCCGAAAGGCGAGUGAGGUCU	CGUAUUGG	30966
2752	8278	AUACCGGC G UUGGAGCA	12592	UGCUCCAA GCCGAAAGGCGAGUGAGGUCU	GCCGGUUA	30967
2758	8272	GCGUUGGA G CAGCUCCA	12593	UGGAGCUG GCCGAAAGGCGAGUGAGGUCU	UCCAACGC	30968
2761	8269	UUGGAGCA G CUCCAUCU	12594	AGAUGGAG GCCGAAAGGCGAGUGAGGUCU	UGUCCCAA	30969
2785	8245	GACUUCG G CAUGUAGG	12595	CCUACAU GCCGAAAGGCGAGUGAGGUCU	CGAAAGUC	30970
2789	8241	UUCGGCAU G UAGGGGCA	12596	UGCCCCUA GCCGAAAGGCGAGUGAGGUCU	AUGCCGAA	30971
2795	8235	AUGUAGGG G CAGAGCAC	12597	GUGCUCUG GCCGAAAGGCGAGUGAGGUCU	CCUACAU	30972
2800	8230	GGGGCAGA G CACCUUCA	12598	UGAAGGUG GCCGAAAGGCGAGUGAGGUCU	UCUGCCCC	30973
2810	8220	ACCUUCAC G CAAAUUC	12599	GAAUUUUG GCCGAAAGGCGAGUGAGGUCU	GUGAAGGU	30974
2824	8206	UUCCUUG G CCCUCGGU	12600	ACGAGGG GCCGAAAGGCGAGUGAGGUCU	CAAGGQAA	30975
2831	8199	GGCCUUCG G UGCAGCCA	12601	UGGCUGCA GCCGAAAGGCGAGUGAGGUCU	CGAGGGCC	30976
2833	8197	CCCUUGGU G CAGCCAGU	12602	ACUGGCTG GCCGAAAGGCGAGUGAGGUCU	ACCGAGGG	30977
2836	8194	UCGGUGCA G CAGUCCU	12603	AGGACUGG GCCGAAAGGCGAGUGAGGUCU	UGCACCGA	30978
2840	8190	UGCAGCCA G UCCUCAAC	12604	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	UGGUCGCA	30979
2868	8162	CCCGAUC G UCCUAUGC	12605	GCAUAGGA GCCGAAAGGCGAGUGAGGUCU	GAUUCGGG	30980
2875	8155	CGUCCUAU G CUCUCAA	12606	UUGAAGAG GCCGAAAGGCGAGUGAGGUCU	AUAGGACG	30981
2889	8141	CAACCUCA G CACUUGAC	12607	GUGAAGUG GCCGAAAGGCGAGUGAGGUCU	AUUGGUG	30982
2912	8118	UCUCOGAU G UCACAAAG	12608	CUUUGUGA GCCGAAAGGCGAGUGAGGUCU	AUCGGAGA	30983
2925	8105	AAAGGAGG G UGUACAA	12609	UUGUGACA GCCGAAAGGCGAGUGAGGUCU	CCUCCUUU	30984
2927	8103	AGGAGGGU G UCACAACA	12610	UGUUGUGA GCCGAAAGGCGAGUGAGGUCU	ACCUCUCC	30985
2944	8086	CUCAGAAG G UCUGUAGA	12611	UCUACAGA GCCGAAAGGCGAGUGAGGUCU	CUUCUGAG	30986
2948	8082	GAAGGUCU G UAGAACAC	12612	GUGUUCUA GCCGAAAGGCGAGUGAGGUCU	AGACCUUC	30987
2976	8054	UCUUAUG G UGACAAUG	12613	CAUUGUCA GCCGAAAGGCGAGUGAGGUCU	UGCAAGA	30988
2984	8046	GUGACAAU G UCCAUCC	12614	GGAUUGAA GCCGAAAGGCGAGUGAGGUCU	AUUGUCAC	30989
3001	8029	AUAACUUU G CACUAGUU	12615	AACUAGUG GCCGAAAGGCGAGUGAGGUCU	AAAGUUUU	30990
3007	8023	UUGCACUA G UUGGGGCU	12616	AGCCCCAA GCCGAAAGGCGAGUGAGGUCU	UAGUGCAA	30991
3013	8017	UAGUUGGG G CUCUUCAU	12617	AUGAAGAG GCCGAAAGGCGAGUGAGGUCU	CCCAACUA	30992
3022	8008	CUCUUCAU G UCCGGGAC	12618	GUCCCGGA GCCGAAAGGCGAGUGAGGUCU	AUGAAGAG	30993
3032	7998	CCGGGACC G CCCUUGU	12619	ACAAAGGG GCCGAAAGGCGAGUGAGGUCU	GGUCCCGG	30994
3039	7991	CGCCCUUU G UGUACCU	12620	AGGGUACA GCCGAAAGGCGAGUGAGGUCU	AAAGGGCG	30995
3041	7989	CCCUUUGU G UACCCUCU	12621	AGAGGGUA GCCGAAAGGCGAGUGAGGUCU	ACAAAGGG	30996
3072	7958	UUUUUUGG G UUGCCAU	12622	UAUGGCAA GCCGAAAGGCGAGUGAGGUCU	CCAAAAAA	30997
3075	7955	UUUGGGUU G CCAUAUAG	12623	CUAUUUGG GCCGAAAGGCGAGUGAGGUCU	AACCCAAA	30998
3083	7947	GCCAUUAU G UAACACCA	12624	UGGUGUUA GCCGAAAGGCGAGUGAGGUCU	UAUAUGGC	30999
3095	7935	CACCAACC G CCUCUUC	12625	GGAAGAGG GCCGAAAGGCGAGUGAGGUCU	GGUUGGUG	31000
3113	7917	CAUCCAAG G UCAAUCAC	12626	GUGAUUGA GCCGAAAGGCGAGUGAGGUCU	CUUGGAUG	31001
3133	7897	UCCGACCG G UUCGAGAA	12627	UUCUCGAA GCCGAAAGGCGAGUGAGGUCU	CGGUCGGA	31002
3148	7882	AAACCUCC G UUCGACCA	12628	UGGUCGAA GCCGAAAGGCGAGUGAGGUCU	GGAGGUUU	31003
3157	7873	UUCGACCA G CCAUCUCA	12629	UGAGAUGG GCCGAAAGGCGAGUGAGGUCU	UGGUCGAA	31004
3166	7864	CCAUCUCA G UUUUGCUG	12630	CAGCAAAA GCCGAAAGGCGAGUGAGGUCU	UGAGAUGG	31005
3171	7859	UCAGUUUU G CUGUGCCC	12631	GGGCACAG GCCGAAAGGCGAGUGAGGUCU	AAAACUGA	31006
3174	7856	GUUUUGCU G UGCCCCUA	12632	UAGGGGCA GCCGAAAGGCGAGUGAGGUCU	AGCAAAAC	31007
3176	7854	UUUGCUGU G CCCCUAGA	12633	UCUAGGGG GCCGAAAGGCGAGUGAGGUCU	ACAGCAAA	31008
3193	7837	GACUGGAU G CCCUCCAG	12634	CUGGAGGG GCCGAAAGGCGAGUGAGGUCU	AUCCAGUC	31009
3201	7829	GCCCUCCA G UGACAUUG	12635	CAAUGUCA GCCGAAAGGCGAGUGAGGUCU	UGGAGGGC	31010
3209	7821	GUGACAUU G CCUUCUUU	12636	AAAGAAGG GCCGAAAGGCGAGUGAGGUCU	AAUGUCAC	31011
3222	7808	CUUUCCUG G CGUGUUUU	12637	AAAACACG GCCGAAAGGCGAGUGAGGUCU	CAGGAAAG	31012
3224	7806	UUCUUGGC G UGUUUUGC	12638	GCAAAACA GCCGAAAGGCGAGUGAGGUCU	GCCAGCAA	31013
3226	7804	CCUGGCGU G UUUUGCCG	12639	CGGC AAAA GCCGAAAGGCGAGUGAGGUCU	ACGCCAGG	31014

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3231	7799	CGUGUUUU G CCGCUGAG	12640	CUCAGCGG GCCGAAAGGCGAGUGAGGUCU	31015
3234	7796	GUUUUGCC G CUGAGCGA	12641	UCGCUUAG GCCGAAAGGCGAGUGAGGUCU	31016
3239	7791	GCCGCUGA G CGAUCGAC	12642	GUCGAUCG GCCGAAAGGCGAGUGAGGUCU	31017
3258	7772	CGAUGAUG G CCUCUUUG	12643	CAAAAGAG GCCGAAAGGCGAGUGAGGUCU	31018
3266	7764	GCCUCUJU G CGGUACCU	12644	AGGUACCG GCCGAAAGGCGAGUGAGGUCU	31019
3269	7761	UCUUUGCG G UACCUAGU	12645	ACUAGGUA GCCGAAAGGCGAGUGAGGUCU	31020
3276	7754	GGUACCUA G UGAACUCU	12646	AGAGUUCA GCCGAAAGGCGAGUGAGGUCU	31021
3291	7739	CUUCUUUU G UCAUCUGG	12647	CCAGAUGA GCCGAAAGGCGAGUGAGGUCU	31022
3299	7731	GUCAUCUG G UUGAGUCU	12648	AGACUCAA GCCGAAAGGCGAGUGAGGUCU	31023
3304	7726	CUGGUUGA G UCUUUUUU	12649	AAGAAACA GCCGAAAGGCGAGUGAGGUCU	31024
3330	7700	CUCCCAAG G UGCGUCCU	12650	AGGACGCA GCCGAAAGGCGAGUGAGGUCU	31025
3332	7698	CCCAAGGU G CGUCCUUU	12651	AAAGGACG GCCGAAAGGCGAGUGAGGUCU	31026
3334	7696	CAAGGUGC G UCCUUUUG	12652	CAAAAGCA GCCGAAAGGCGAGUGAGGUCU	31027
3342	7688	GUCCUUUU G CCCACCU	12653	AGGUGGGG GCCGAAAGGCGAGUGAGGUCU	31028
3358	7672	UCUUUUUA G UCCUGGUU	12654	AACCAGCA GCCGAAAGGCGAGUGAGGUCU	31029
3364	7666	UAGUCCUG G UUUUUCCA	12655	UGGAAAAA GCCGAAAGGCGAGUGAGGUCU	31030
3374	7656	UUUUCCAU G UUCUUUAU	12656	AUAAAGAA GCCGAAAGGCGAGUGAGGUCU	31031
3385	7645	CUUUUAUG G UGUCCAUG	12657	CAUGGACA GCCGAAAGGCGAGUGAGGUCU	31032
3387	7643	UUUAUGAU G UCCAUGUU	12658	AACAUGGA GCCGAAAGGCGAGUGAGGUCU	31033
3393	7637	GUGUCCAU G UUAUGGAU	12659	AUCCAUAA GCCGAAAGGCGAGUGAGGUCU	31034
3424	7606	ACCCCCAC G CAUGAUGU	12660	ACAUCUAG GCCGAAAGGCGAGUGAGGUCU	31035
3431	7599	CGCAUGAU G UGGCAGAG	12661	CUCUGCCA GCCGAAAGGCGAGUGAGGUCU	31036
3434	7596	AUGAUGUG G CAGAGUCC	12662	GGACUCUG GCCGAAAGGCGAGUGAGGUCU	31037
3439	7591	GUGGCAGA G UCCGAUGG	12663	CCAUCGGA GCCGAAAGGCGAGUGAGGUCU	31038
3447	7583	GUCCGAUG G CAGUUGUU	12664	AACAACUG GCCGAAAGGCGAGUGAGGUCU	31039
3450	7580	CGAUGGCA G UUGUUGCG	12665	CGCAACAA GCCGAAAGGCGAGUGAGGUCU	31040
3453	7577	UGGCAGUU G UUGCGUUC	12666	GAACGCAA GCCGAAAGGCGAGUGAGGUCU	31041
3456	7574	CAGUUGUU G CGUCCCAA	12667	UUGGAAAG GCCGAAAGGCGAGUGAGGUCU	31042
3458	7572	GUUGUUGC G UUCCAAAC	12668	GUUUGGAA GCCGAAAGGCGAGUGAGGUCU	31043
3470	7560	CAAAACAGA G CUUGCUCC	12669	GGAGCAAG GCCGAAAGGCGAGUGAGGUCU	31044
3474	7556	CAGAGCUU G CUCCAUUC	12670	GAAUGGAG GCCGAAAGGCGAGUGAGGUCU	31045
3490	7540	CUCCCAAA G CGUCACCG	12671	CGGUGACG GCCGAAAGGCGAGUGAGGUCU	31046
3492	7538	CCCAAAGC G UCACCGCU	12672	AGCGGUGA GCCGAAAGGCGAGUGAGGUCU	31047
3498	7532	GCGUACCG G CUGCGGCC	12673	GGCGCGAG GCCGAAAGGCGAGUGAGGUCU	31048
3501	7529	UCACCGCU G CGGCCGUG	12674	CACGGCCG GCCGAAAGGCGAGUGAGGUCU	31049
3504	7526	CCGUGCGG G CCGUGAUC	12675	GAUCACGG GCCGAAAGGCGAGUGAGGUCU	31050
3507	7523	CUGCGGCC G UGAUCAA	12676	UUUGAUCA GCCGAAAGGCGAGUGAGGUCU	31051
3522	7508	AAAUUCCG G CUUCUCGU	12677	ACGAGAAG GCCGAAAGGCGAGUGAGGUCU	31052
3529	7501	GGCUUUCG G UACUGUCU	12678	AGACAGUA GCCGAAAGGCGAGUGAGGUCU	31053
3534	7496	CUCGUACU G UCUUCACA	12679	UGUGAAGA GCCGAAAGGCGAGUGAGGUCU	31054
3548	7482	ACAGACGG G UUCACUAC	12680	GUAGUGAA GCCGAAAGGCGAGUGAGGUCU	31055
3561	7469	CUACUACU G CAGCUAGA	12681	UCUAGCUG GCCGAAAGGCGAGUGAGGUCU	31056
3564	7466	CUACUGCA G CUAGAGAC	12682	GUCUCUAG GCCGAAAGGCGAGUGAGGUCU	31057
3583	7447	CAAGAUCA G CAUGAUUC	12683	AGAUCAUG GCCGAAAGGCGAGUGAGGUCU	31058
3592	7438	CAUGAUCU G UCCAACUU	12684	AAGUUGGA GCCGAAAGGCGAGUGAGGUCU	31059
3607	7423	UUUCUUCU G CAUGAUGG	12685	CCAUCAUG GCCGAAAGGCGAGUGAGGUCU	31060
3616	7414	CAUGAUGG G UGUGGUGC	12686	GCACCACA GCCGAAAGGCGAGUGAGGUCU	31061
3618	7412	UGAUGGUG G UGGUGCGC	12687	GCGCACCA GCCGAAAGGCGAGUGAGGUCU	31062
3621	7409	UGGUGUGG G UGCGUCUC	12688	AGAGCGCA GCCGAAAGGCGAGUGAGGUCU	31063
3623	7407	GGUGUGGU G CGCUCTAA	12689	UUAGAGCG GCCGAAAGGCGAGUGAGGUCU	31064
3625	7405	UGUGGUGC G CUCUAAUU	12690	AAUUAAGG GCCGAAAGGCGAGUGAGGUCU	31065
3641	7389	UCUGGGAC G UCCGUGGC	12691	GCCACGGA GCCGAAAGGCGAGUGAGGUCU	31066
3645	7385	GGACGUCC G UGGCCACG	12692	CGUGGCCA GCCGAAAGGCGAGUGAGGUCU	31067
3648	7382	CGUCCGUG G CCAAGAUU	12693	CAUCGUGG GCCGAAAGGCGAGUGAGGUCU	31068
3656	7374	GCCACGAU G CCAUCCAC	12694	GUGGAUGG GCCGAAAGGCGAGUGAGGUCU	31069
3669	7361	CCACUACA G CGUUCUUC	12695	GAAGAACG GCCGAAAGGCGAGUGAGGUCU	31070
3671	7359	ACUACAGC G UUCUUCAU	12696	AUGAAGAA GCCGAAAGGCGAGUGAGGUCU	31071
3687	7343	UGAUUCCG G CCGUUGUC	12697	GACAGCGG GCCGAAAGGCGAGUGAGGUCU	31072
3690	7340	UUCGCGCC G CUGUCCGC	12698	GCGGACAG GCCGAAAGGCGAGUGAGGUCU	31073
3693	7337	CGGCCGCU G UCCGCCGC	12699	GCGCGGGA GCCGAAAGGCGAGUGAGGUCU	31074
3697	7333	CGCUGUCC G CCGUGGGG	12700	CCCAGCGG GCCGAAAGGCGAGUGAGGUCU	31075
3700	7330	UGUCCGCC G CUGGGCUG	12701	CAGCCAGG GCCGAAAGGCGAGUGAGGUCU	31076

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3705	7325	GCCGCUUG G CUGAGCGC	12702	GCGCUCAG GCCGAAAGGCGAGUGAGGUCU	CCAGCGGC	31077
3710	7320	UGGGCUGA G CGCAUUGC	12703	GCAAUGCG GCCGAAAGGCGAGUGAGGUCU	UCAGCCCA	31078
3712	7318	GGCUGAGC G CAUUGCCU	12704	AGGCAAUG GCCGAAAGGCGAGUGAGGUCU	GCUCAGCC	31079
3717	7313	AGCGCAUUG G CCUCAGCU	12705	AGCUGAGG GCCGAAAGGCGAGUGAGGUCU	AAUGCGCU	31080
3723	7307	UUGCCUCA G CUUGCCAA	12706	UUGGCAAG GCCGAAAGGCGAGUGAGGUCU	UGAGGCAA	31081
3727	7303	CUCAGCUU G CCAACCGG	12707	CCGGUUGG GCCGAAAGGCGAGUGAGGUCU	AAGCUGAG	31082
3743	7287	GGAAACCAU G UAGGCAUA	12708	UAUGCCUA GCCGAAAGGCGAGUGAGGUCU	AUGGUUCC	31083
3747	7283	CCAUGUAG G CAUAGUGG	12709	CCACUAGG GCCGAAAGGCGAGUGAGGUCU	AGCGUAGG	31084
3752	7278	UAGGCAUA G UGGCAAAA	12710	UUUUGCCA GCCGAAAGGCGAGUGAGGUCU	UAUGCCUA	31085
3755	7275	GCAUAGUG G CAAAAAAG	12711	CUUUUUUG GCCGAAAGGCGAGUGAGGUCU	CACUAUGC	31086
3766	7264	AAAAAGGA G UGUUGCCG	12712	CGGCAACA GCCGAAAGGCGAGUGAGGUCU	UCCUUUUU	31087
3768	7262	AAAGGAGU G UUGCCGCU	12713	AGCGGCAA GCCGAAAGGCGAGUGAGGUCU	ACUCUUUU	31088
3771	7259	GGAGUGUU G CCGCUGUU	12714	AACAGCGG GCCGAAAGGCGAGUGAGGUCU	AACACUCC	31089
3774	7256	GUGUUGCC G CUGUUACC	12715	UGUAACAG GCCGAAAGGCGAGUGAGGUCU	GGCAACAC	31090
3777	7253	UUGCCGCU G UUAACGUA	12716	UAGGUUAA GCCGAAAGGCGAGUGAGGUCU	AGCGGCAA	31091
3783	7247	CUGUUACC G UAACGGUG	12717	CACCGUUA GCCGAAAGGCGAGUGAGGUCU	GGUAACAG	31092
3789	7241	CCGUAAACG G UGAGGGUG	12718	CACCCUCA GCCGAAAGGCGAGUGAGGUCU	CGUUACGG	31093
3795	7235	CGGUGAGG G UGACUUGU	12719	ACAAGUCA GCCGAAAGGCGAGUGAGGUCU	CCUCACCG	31094
3802	7228	GGUGACUU G UCCCCAGC	12720	GCUGGGGA GCCGAAAGGCGAGUGAGGUCU	AAGUCACC	31095
3809	7221	UGUCCCCA G CAUCCGGC	12721	GCCGGAUG GCCGAAAGGCGAGUGAGGUCU	UGGGGACA	31096
3816	7214	AGCAUCCG G CUGCUAGC	12722	CUUAGCAG GCCGAAAGGCGAGUGAGGUCU	CGGAUGCU	31097
3819	7211	AUCCGGCU G CUAGCAGG	12723	CCUGCUAG GCCGAAAGGCGAGUGAGGUCU	AGCCGGAU	31098
3823	7207	GGCUGCUA G CAGGAGAG	12724	CUCUCCUG GCCGAAAGGCGAGUGAGGUCU	UAGCAGCC	31099
3831	7199	GCAGGAGA G CCGACACU	12725	AGUGUCGG GCCGAAAGGCGAGUGAGGUCU	UCUCUUGC	31100
3860	7170	AAGGGGAA G CCUCGCGC	12726	GCGCGAGG GCCGAAAGGCGAGUGAGGUCU	UUCCCUUU	31101
3865	7165	GAAGCCUC G CGCGAGUG	12727	CACUCGCG GCCGAAAGGCGAGUGAGGUCU	GAGGCUUC	31102
3867	7163	AGCCUCGC G CGAGUGUG	12728	CACUACUG GCCGAAAGGCGAGUGAGGUCU	GCGAGGCU	31103
3871	7159	UCGCGCGA G UGUGAAUA	12729	UAUUCACA GCCGAAAGGCGAGUGAGGUCU	UCGCGCGA	31104
3873	7157	GCGCGAGU G UGAAUAGU	12730	ACUAUUCA GCCGAAAGGCGAGUGAGGUCU	ACUCGCGC	31105
3880	7150	UGUGAAUA G UGCACUUG	12731	CAAGUGCA GCCGAAAGGCGAGUGAGGUCU	UAUUCACA	31106
3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGUG GCCGAAAGGCGAGUGAGGUCU	ACUAUUCA	31107
3888	7142	GUGCACTU G CCUGAACG	12733	CGUUCAGG GCCGAAAGGCGAGUGAGGUCU	AAGUGCAC	31108
3896	7134	GCCUGAAC G UUAUUGA	12734	UCAUAUAA GCCGAAAGGCGAGUGAGGUCU	GUUCAGGC	31109
3906	7124	UUAUUGAG G UCAUUGAG	12735	UCCAUUGA GCCGAAAGGCGAGUGAGGUCU	CUCAUUA	31110
3915	7115	UCAUUGAG G UGUUGAUG	12736	CAUCAACA GCCGAAAGGCGAGUGAGGUCU	CUCAUUGA	31111
3917	7113	AAUGAGGU G UGAUGUA	12737	UACAUCAA GCCGAAAGGCGAGUGAGGUCU	ACCUCAUU	31112
3923	7107	GUGUUGAU G UAAUCUGA	12738	UCAGAUUA GCCGAAAGGCGAGUGAGGUCU	AUCAACAC	31113
3933	7097	AAUCUGAC G UGAUCAA	12739	UUUGAUCA GCCGAAAGGCGAGUGAGGUCU	GUCAGAUU	31114
3943	7087	GAUCAAU G CUUAGCA	12740	UGCUAAGG GCCGAAAGGCGAGUGAGGUCU	AUUUGAUC	31115
3949	7081	AUGCUUUA G CAGUGGAG	12741	UGCCACUG GCCGAAAGGCGAGUGAGGUCU	UAAAGCAU	31116
3952	7078	CUUUGACA G UGGAGUGA	12742	UCACUCCA GCCGAAAGGCGAGUGAGGUCU	UGCUAAG	31117
3957	7073	GCAGUGGA G UGAGGACC	12743	GGUCCUCA GCCGAAAGGCGAGUGAGGUCU	UCCACUGC	31118
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAACAG GCCGAAAGGCGAGUGAGGUCU	GGUCUCA	31119
3969	7061	GGACCGCU G UUGUCACA	12745	UGUGACAA GCCGAAAGGCGAGUGAGGUCU	AGCGGUCC	31120
3972	7058	CCGCUUGU G UCACAGCG	12746	CGCUGUGA GCCGAAAGGCGAGUGAGGUCU	AACAGCGG	31121
3978	7052	UUGUCACA G CGUACAGU	12747	ACUGUACG GCCGAAAGGCGAGUGAGGUCU	UGUGACAA	31122
3980	7050	GUCACAGC G UACAGUGA	12748	UCACUGUA GCCGAAAGGCGAGUGAGGUCU	UGUGAGAC	31123
3985	7045	AGCGUACA G UGACCAGG	12749	CCUGGUCA GCCGAAAGGCGAGUGAGGUCU	UGUACGCU	31124
3993	7037	GUGACCAG G CUGUUGCC	12750	GGCAACAG GCCGAAAGGCGAGUGAGGUCU	CUGGUCAC	31125
3996	7034	ACCAGGCU G UUGCCGCG	12751	GCCGGCAA GCCGAAAGGCGAGUGAGGUCU	AGCCUGGU	31126
3999	7031	AGGCUUGU G CCGGCCUC	12752	GAGGCGCG GCCGAAAGGCGAGUGAGGUCU	AACAGCCU	31127
4003	7027	UGUUGCCG G CCUCAAGU	12753	ACUUUAGG GCCGAAAGGCGAGUGAGGUCU	CGGCAACA	31128
4010	7020	GGCCUCA G UCCAAAAG	12754	CUUUUGGA GCCGAAAGGCGAGUGAGGUCU	UUGAGGCC	31129
4031	6999	UCUCCCAU G CUGAAAUU	12755	AAUUUCAG GCCGAAAGGCGAGUGAGGUCU	AUGGAGGA	31130
4060	6970	AAUUCUUU G CCAACA	12756	UGUUUGGG GCCGAAAGGCGAGUGAGGUCU	AAAGAAUU	31131
4073	6957	AACAAACU G CUUAUGUC	12757	GACAUAAG GCCGAAAGGCGAGUGAGGUCU	AGUUUGUU	31132
4079	6951	CUGCUUUA G UCAUCUUU	12758	AAGAGUGA GCCGAAAGGCGAGUGAGGUCU	AUAAGCAG	31133
4089	6941	CACUCUUG G UCUUAUCU	12759	AGAUAAGA GCCGAAAGGCGAGUGAGGUCU	CAAGAGUG	31134
4099	6931	CUUAUCUA G CCAACCCA	12760	UGGGUUGG GCCGAAAGGCGAGUGAGGUCU	UAGAUAAG	31135
4112	6918	CCCAUCUC G UUGGCUUC	12761	GCAGCCAA GCCGAAAGGCGAGUGAGGUCU	GAGAUGGG	31136
4116	6914	UCUCGUUG G CUGCCACU	12762	AGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CAACGAGA	31137
4119	6911	CGUUGGCU G CCACUGCG	12763	CGCAGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCAACG	31138

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4125	6905	CUGCCACU G CGCUCACA	12764	UGUGAGCG GCCGAAAGGCGAGUGAGGUCU	AGUGGCAG	31139
4127	6903	GCCACUGC G CUCACAAG	12765	CUUGUGAG GCCGAAAGGCGAGUGAGGUCU	GCAGUGGC	31140
4137	6893	UCACAAGG G UCAUGACA	12766	UGUCAUGA GCCGAAAGGCGAGUGAGGUCU	CCUUGUGA	31141
4161	6869	GGAACACG G CUAGCUGG	12767	CCAGCUAG GCCGAAAGGCGAGUGAGGUCU	CGUGUUC	31142
4165	6865	CACGGCUA G CUGGUUGU	12768	ACAACCAG GCCGAAAGGCGAGUGAGGUCU	UAGCCGUG	31143
4169	6861	GCUAGCUG G UUGUCUGU	12769	ACAGACAA GCCGAAAGGCGAGUGAGGUCU	CAGCUAGC	31144
4172	6858	AGCUGGUU G UCUGUCUG	12770	CAGACAGA GCCGAAAGGCGAGUGAGGUCU	AACCAGCU	31145
4176	6854	GGUUGUCU G UCUGCGAA	12771	UUCGCAGA GCCGAAAGGCGAGUGAGGUCU	AGACAACC	31146
4180	6850	GUCUGUCU G CGAACGUU	12772	AACGUUCG GCCGAAAGGCGAGUGAGGUCU	AGACAGAC	31147
4186	6844	CUGCGAAC G UUGCUUCU	12773	AGAAGCAA GCCGAAAGGCGAGUGAGGUCU	GUUCGCAG	31148
4189	6841	CGAACGUU G CUUCUCUG	12774	CAGAGAAG GCCGAAAGGCGAGUGAGGUCU	AACGUUCG	31149
4198	6832	CUUCUCUG G CUCAGCAA	12775	UUCUCAGG GCCGAAAGGCGAGUGAGGUCU	CAGCAAAG	31150
4210	6820	AGGAAUUA G CACAAUCA	12776	UGAUUGUG GCCGAAAGGCGAGUGAGGUCU	UAAUUCU	31151
4234	6796	AAGGGAGA G CAGCAACA	12777	UGUUGCUG GCCGAAAGGCGAGUGAGGUCU	UCUCCCU	31152
4237	6793	GGAGAGCA G CAACAUUC	12778	GAAUGUUG GCCGAAAGGCGAGUGAGGUCU	UGCUCUCC	31153
4248	6782	ACAUUCCG G CGAUCUUC	12779	GAAGAUCC GCCGAAAGGCGAGUGAGGUCU	CGAAUUGU	31154
4257	6773	CGAUCUUC G UUCUGGA	12780	UCCAGGAA GCCGAAAGGCGAGUGAGGUCU	GAAGAUCC	31155
4272	6758	GAACUUA G CCAUCCAA	12781	UUGGAUGG GCCGAAAGGCGAGUGAGGUCU	UGAAGUUC	31156
4290	6740	AGAAAAG G UCGCGACU	12782	AGUCGCGA GCCGAAAGGCGAGUGAGGUCU	CUUUUUCU	31157
4293	6737	AAAAGGUC G CGACUCCC	12783	GGGAGUCG GCCGAAAGGCGAGUGAGGUCU	GACCUUUU	31158
4308	6722	CCAAGACA G CGCCUCCC	12784	GGGAGGCG GCCGAAAGGCGAGUGAGGUCU	UGUCUUGG	31159
4310	6720	AAGACAGC G CCUCCCAA	12785	UUGGGAGG GCCGAAAGGCGAGUGAGGUCU	GCUGUCUU	31160
4334	6696	UUUCCAAU G CCUUCG	12786	CGGAAGGG GCCGAAAGGCGAGUGAGGUCU	AUUGGAAA	31161
4342	6688	GCCUUCG G CUGCAUGA	12787	UUAUGCAG GCCGAAAGGCGAGUGAGGUCU	GGAAGGCG	31162
4345	6685	CUUCCGCU G CAUGAGGA	12788	UCCUCAUG GCCGAAAGGCGAGUGAGGUCU	AGCGGAAG	31163
4371	6659	CUCCCAUG G UCAUCACA	12789	UGUGAUGA GCCGAAAGGCGAGUGAGGUCU	CAUGGGAG	31164
4389	6641	UCAUAAG G CAAUCAAG	12790	CUUGAUUG GCCGAAAGGCGAGUGAGGUCU	CUUAUUGA	31165
4398	6632	CAAUCAAG G CAAUGUC	12791	GACAAUUG GCCGAAAGGCGAGUGAGGUCU	CUUGAUUG	31166
4404	6626	AGGCAAUU G UCUGAAGA	12792	UCUUCAGA GCCGAAAGGCGAGUGAGGUCU	AAUUGCCU	31167
4413	6617	UCUGAAGA G CAUCUGGC	12793	CCGAGAUG GCCGAAAGGCGAGUGAGGUCU	UCUUCAGA	31168
4420	6610	AGCAUCUG G CAGUCCU	12794	AGGAACUG GCCGAAAGGCGAGUGAGGUCU	CAUAGGCU	31169
4423	6607	AUCUGGCA G UUCUCCA	12795	UGGAGGAA GCCGAAAGGCGAGUGAGGUCU	UGCCAGAU	31170
4434	6596	CCUCCAGG G CCAUUCUG	12796	CAGAAUGG GCCGAAAGGCGAGUGAGGUCU	CCUGGAGG	31171
4442	6588	GCCAUUCU G UGAGCUCU	12797	AGAGCUCA GCCGAAAGGCGAGUGAGGUCU	AGAAUGGC	31172
4446	6584	UUCUGUGA G CUCUCCU	12798	AGGAAGAG GCCGAAAGGCGAGUGAGGUCU	UCACAGAA	31173
4464	6566	CUUUCUCU G CAGUGGCC	12799	UGGCAUCG GCCGAAAGGCGAGUGAGGUCU	AGAGAAAG	31174
4467	6563	UCUCUGCA G UGGCCACA	12800	UGUGGCCA GCCGAAAGGCGAGUGAGGUCU	UGCAGAGA	31175
4470	6560	CUGCAGUG G CCACAACG	12801	CGUUGUGG GCCGAAAGGCGAGUGAGGUCU	CACUGCAG	31176
4478	6552	GCCACAAC G UACAUGGU	12802	ACCAUGUA GCCGAAAGGCGAGUGAGGUCU	GUUGUGGC	31177
4485	6545	CGUACAUG G UGUCAAGU	12803	ACUUGACA GCCGAAAGGCGAGUGAGGUCU	CAUGUACG	31178
4487	6543	UACAUGGU G UCAAGUGC	12804	GCACUUGA GCCGAAAGGCGAGUGAGGUCU	ACCAUGUA	31179
4492	6538	GGUGUCAA G UGUUCCC	12805	AGGAAGCA GCCGAAAGGCGAGUGAGGUCU	UUGACACC	31180
4494	6536	UGUCAAGU G CUUCCCAU	12806	UUGGGAAG GCCGAAAGGCGAGUGAGGUCU	ACUUGACA	31181
4503	6527	CUUCCCAU G UCUUCCC	12807	GGGGAAGA GCCGAAAGGCGAGUGAGGUCU	AUGGGAAG	31182
4517	6513	CCCAUGAA G UGCUCAGG	12808	CCUGAGCA GCCGAAAGGCGAGUGAGGUCU	UUCAUUGG	31183
4519	6511	CAUGAAGU G CUCAGGCA	12809	UGCCUGAG GCCGAAAGGCGAGUGAGGUCU	ACUUCUAG	31184
4525	6505	GUGCUCAG G CAUCUUUC	12810	GAAAGAUG GCCGAAAGGCGAGUGAGGUCU	CUGAGCAC	31185
4549	6481	CUCAUGA G CCUAUCU	12811	AGAUAGGG GCCGAAAGGCGAGUGAGGUCU	UCAUUGAG	31186
4564	6466	CUGAGAAC G UUUUCCG	12812	CGGGAAGA GCCGAAAGGCGAGUGAGGUCU	GUUCUCAG	31187
4575	6455	UUCCCGAG G CGAAGUCC	12813	GGACUUCG GCCGAAAGGCGAGUGAGGUCU	CUCGGGAA	31188
4580	6450	GAGGCGAA G UCCUUGAA	12814	UUCAAGGA GCCGAAAGGCGAGUGAGGUCU	UUCGCCUC	31189
4590	6440	CCUUGAAC G CCUUUAGU	12815	ACUAAAGG GCCGAAAGGCGAGUGAGGUCU	GUUCAAGG	31190
4597	6433	CGCCUUUA G UGCCUGGU	12816	ACCAGGCA GCCGAAAGGCGAGUGAGGUCU	UAAAGGCG	31191
4599	6431	CCUUUAGU G CCUGGUGA	12817	UCACCAGG GCCGAAAGGCGAGUGAGGUCU	ACUAAAGG	31192
4604	6426	AGUGCCUG G UGAUCCGA	12818	UCGGAUCA GCCGAAAGGCGAGUGAGGUCU	CAGGCACU	31193
4613	6417	UGAUCCGA G UACACCCU	12819	AGGGUGUA GCCGAAAGGCGAGUGAGGUCU	UCGGAUCA	31194
4623	6407	ACACCCUG G CGUCAAUC	12820	GAUUGACG GCCGAAAGGCGAGUGAGGUCU	CAGGGUGU	31195
4625	6405	ACCUUGGC G UCAAUCCA	12821	UGGAUUGA GCCGAAAGGCGAGUGAGGUCU	GCCAGGGU	31196
4634	6396	UCAAUCCA G CGCGCCU	12822	AGGCCGCG GCCGAAAGGCGAGUGAGGUCU	UGGAUUGA	31197
4636	6394	AAUCCAGC G CGGCCUCA	12823	UGAGGCCG GCCGAAAGGCGAGUGAGGUCU	GCUGGAUU	31198
4639	6391	CCAGCGCG G CCUCAGAA	12824	UUCUGAGG GCCGAAAGGCGAGUGAGGUCU	CGCGCUGG	31199
4663	6367	UUCACCAA G CUUCUGA	12825	UCACGAAG GCCGAAAGGCGAGUGAGGUCU	UUGGUGAA	31200

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4668	6362	CAAGCUUC G UGAUGACU	12826	AGUCAUCA GCCGAAAGGCGAGUGAGGUCU	GAAGCUUG	31201
4685	6345	UCCACUUC G UUGUUGUC	12827	GACAAACAA GCCGAAAGGCGAGUGAGGUCU	GAAGUGGA	31202
4688	6342	ACUUCGUU G UUGUCUUC	12828	GAAGACAA GCCGAAAGGCGAGUGAGGUCU	AACGAAGU	31203
4691	6339	UCGUUGUU G UCUCUAA	12829	UUAGAAGA GCCGAAAGGCGAGUGAGGUCU	AACAACGA	31204
4704	6326	CUAAAAUU G UGUUUGUC	12830	GACAAACA GCCGAAAGGCGAGUGAGGUCU	AAUUUUAG	31205
4706	6324	AAAAUUGU G UUUGUCCU	12831	AGGACAAA GCCGAAAGGCGAGUGAGGUCU	ACAAUUUU	31206
4710	6320	UUGUGUUU G UCCUAGGA	12832	UCCUAGGA GCCGAAAGGCGAGUGAGGUCU	AAACACAA	31207
4727	6303	CCAACAAA G CACCACCU	12833	AGGUGGUG GCCGAAAGGCGAGUGAGGUCU	UUUGAUGG	31208
4739	6291	CACCUCUG G UCGUGGUA	12834	UACCACGA GCCGAAAGGCGAGUGAGGUCU	CGGAGGUG	31209
4742	6288	CUCCGGUC G UGGUAUGA	12835	UCAUACCA GCCGAAAGGCGAGUGAGGUCU	GACC GGAG	31210
4745	6285	CGGUCGUG G UAUGACAC	12836	GUGUCAUA GCCGAAAGGCGAGUGAGGUCU	CACGACCG	31211
4758	6272	ACACUCCA G CCGUGCA	12837	UGCAGCGG GCCGAAAGGCGAGUGAGGUCU	UGGAGUGU	31212
4761	6269	CUCCAGCC G CUGCAACC	12838	GGUUGCAG GCCGAAAGGCGAGUGAGGUCU	GGCUGGAG	31213
4764	6266	CAGCCGCU G CAACCUUG	12839	CAAGGUUG GCCGAAAGGCGAGUGAGGUCU	AGCGGCUG	31214
4772	6258	GCAACCUU G UAAGCCAG	12840	CUGGCUUA GCCGAAAGGCGAGUGAGGUCU	AAGGUUGC	31215
4776	6254	CCUUGUAA G CCAGCCAA	12841	UUGGCUUG GCCGAAAGGCGAGUGAGGUCU	UUACAAGG	31216
4780	6250	GUAAGCCA G CCAAACUG	12842	CAGUUUGG GCCGAAAGGCGAGUGAGGUCU	UGGCUUAC	31217
4789	6241	CCAAACUG G CAGAUCUG	12843	CAGAUCUG GCCGAAAGGCGAGUGAGGUCU	CAGUUUGG	31218
4797	6233	GCAGAUCU G CAGUCCUC	12844	GAGGACUG GCCGAAAGGCGAGUGAGGUCU	AGAUCUGC	31219
4800	6230	GAUCUGCA G UCCUCAAC	12845	GUUGAGGA GCCGAAAGGCGAGUGAGGUCU	UGCAGAUC	31220
4810	6220	CCUCAACA G UCCAGAA	12846	UUCUGGAA GCCGAAAGGCGAGUGAGGUCU	UGUUGAGG	31221
4820	6210	UCCAGAAA G UUUUUUCU	12847	AGAAAAAA GCCGAAAGGCGAGUGAGGUCU	UUUCUGGA	31222
4843	6187	UCCUCUGA G CCGUAUU	12848	AAUACCGG GCCGAAAGGCGAGUGAGGUCU	UCAGAGGA	31223
4847	6183	CUGAGCCG G UAUUCCCC	12849	GGGGAUA GCCGAAAGGCGAGUGAGGUCU	CGGCUAG	31224
4863	6167	CAUCCAUG G UAUUAUCC	12850	GGUAUAUA GCCGAAAGGCGAGUGAGGUCU	CAUGGAUG	31225
4879	6151	CUUCUCAC G CUCUGGUU	12851	AACCAGAG GCCGAAAGGCGAGUGAGGUCU	GUGAGAAG	31226
4885	6145	ACGCUCUG G UUGGUAGA	12852	UCUACCAA GCCGAAAGGCGAGUGAGGUCU	CAGAGCGU	31227
4889	6141	UCUGGUUG G UAGAAUUG	12853	CAAUUCUA GCCGAAAGGCGAGUGAGGUCU	CAACCAGA	31228
4899	6131	AGAAUUGA G CGAUCAGU	12854	ACUGAUCG GCCGAAAGGCGAGUGAGGUCU	UCAAUUUCU	31229
4906	6124	AGCGAUCA G UCCGUUUG	12855	CAAAACGA GCCGAAAGGCGAGUGAGGUCU	UGAUCGCU	31230
4910	6120	AUCAGUCC G UUUGGCAU	12856	AUGCCAAA GCCGAAAGGCGAGUGAGGUCU	GGACUGAU	31231
4915	6115	UCCGUUUG G CAUGUUGA	12857	UCAACAUG GCCGAAAGGCGAGUGAGGUCU	CAAAACGA	31232
4919	6111	UUUGGCAU G UUGAUGUU	12858	AACAUCAA GCCGAAAGGCGAGUGAGGUCU	AUGCCAAA	31233
4925	6105	AUGUUGAU G UUGUCCAG	12859	CUGGACAA GCCGAAAGGCGAGUGAGGUCU	AUCAACAU	31234
4928	6102	UUGAUGUU G UCCAGCAU	12860	AUGUGGGA GCCGAAAGGCGAGUGAGGUCU	AACAUCAA	31235
4933	6097	GUUGUCCA G CAUGAUUC	12861	GAAUCAUG GCCGAAAGGCGAGUGAGGUCU	UGGACAAC	31236
4942	6088	CAUGAUUC G UGCCUCAG	12862	CUGAGGCA GCCGAAAGGCGAGUGAGGUCU	GAAUCAUG	31237
4944	6086	UGAUUCGU G CCUCAGUC	12863	GACUGAGG GCCGAAAGGCGAGUGAGGUCU	ACGAUACA	31238
4950	6080	GUGCCUCA G UCCAAUUG	12864	CCAUUGGA GCCGAAAGGCGAGUGAGGUCU	UGAGGCAC	31239
4959	6071	UCCAAUUG G CGAAGUUC	12865	GAACUUCG GCCGAAAGGCGAGUGAGGUCU	CCAUUGGA	31240
4964	6066	UGGCGCAA G UUCGAGUC	12866	GACUCGAA GCCGAAAGGCGAGUGAGGUCU	UUCGCCCA	31241
4970	6060	AAGUUCGA G UCGUCUUC	12867	GAAGACGA GCCGAAAGGCGAGUGAGGUCU	UCCAACUU	31242
4973	6057	UUCGAGUC G UCUCUAUU	12868	AAUGAAGA GCCGAAAGGCGAGUGAGGUCU	GACUCGAA	31243
4983	6047	CUUCAUUC G UGUGCCCC	12869	GGGGCACA GCCGAAAGGCGAGUGAGGUCU	GAAUGAAG	31244
4985	6045	UCAUUCGU G UGCCCCC	12870	GGGGGGCA GCCGAAAGGCGAGUGAGGUCU	ACGAUGA	31245
4987	6043	AUUCGUGU G CCCCCAU	12871	AUGGGGGG GCCGAAAGGCGAGUGAGGUCU	ACACGAAU	31246
5000	6030	CCAUAACA G UACUCAUC	12872	GUAUGAUA GCCGAAAGGCGAGUGAGGUCU	UGUUAUGG	31247
5017	6013	ACCAACUU G CGACGGAU	12873	AUCCGUCG GCCGAAAGGCGAGUGAGGUCU	AAGUUGGU	31248
5038	5992	ACCGAUAC G UCCACGUC	12874	GACGUGGA GCCGAAAGGCGAGUGAGGUCU	GUAUCGGU	31249
5044	5986	ACGUCCAC G UCUCUGG	12875	CCCAGAGA GCCGAAAGGCGAGUGAGGUCU	GUGGACGU	31250
5052	5978	GUCUCUGG G CGGCACUA	12876	UAGUGCCG GCCGAAAGGCGAGUGAGGUCU	CCAGAGAC	31251
5055	5975	UCUGGGCG G CACUAGCU	12877	AGCUAGUG GCCGAAAGGCGAGUGAGGUCU	CGCCCAGA	31252
5061	5969	CGGCACUA G CUGCUGUC	12878	GACAGCAG GCCGAAAGGCGAGUGAGGUCU	UAGUGCCG	31253
5064	5966	CACUAGCU G CUGUCAUC	12879	AGUGACAG GCCGAAAGGCGAGUGAGGUCU	AGCUAGUG	31254
5067	5963	UAGCUGCU G UCACUGCA	12880	UGCAGUGA GCCGAAAGGCGAGUGAGGUCU	AGCAGCUA	31255
5073	5957	CUGUCACU G CAGAUUGU	12881	ACCAUCUG GCCGAAAGGCGAGUGAGGUCU	AGUGACAG	31256
5080	5950	UGCAGAUG G UUCUCCCA	12882	UGGAGAGG GCCGAAAGGCGAGUGAGGUCU	CAUCUGCA	31257
5112	5918	CUCUUCU G UUAUGAUG	12883	CAUCAUAA GCCGAAAGGCGAGUGAGGUCU	AGAAGGAG	31258
5121	5909	UUAUGAUG G UUGGUUUC	12884	GAAACCAA GCCGAAAGGCGAGUGAGGUCU	CAUCAUAA	31259
5125	5905	GAUGGUUG G UUCACAC	12885	AGUGAAGG GCCGAAAGGCGAGUGAGGUCU	CAACCAUC	31260
5141	5889	CUCUCCG G CUGUCAAU	12886	UUGACAG GCCGAAAGGCGAGUGAGGUCU	CGAAGAG	31261
5144	5886	UUCGCGCU G UCAUUCAC	12887	GUGAUUGA GCCGAAAGGCGAGUGAGGUCU	AGCCGGAA	31262

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5156	5874	AUCACCCU G CUCGCCUU	12888	AAGGCGAG GCCGAAAGGCGAGUGAGGUCU	AGGGUGAU	31263
5160	5870	CCUUGCUC G CCUUGAAG	12889	CUUCAAGG GCCGAAAGGCGAGUGAGGUCU	GAGCAGGG	31264
5168	5862	GCCUUGAA G UUAGCCCC	12890	GGGGCTUA GCCGAAAGGCGAGUGAGGUCU	UUCAAGGC	31265
5172	5858	UGAAGUUA G CCCCAU	12891	AAUGGGGG GCCGAAAGGCGAGUGAGGUCU	UAACUUA	31266
5189	5841	UCAGAUUA G UCUGUUGU	12892	ACAACAGA GCCGAAAGGCGAGUGAGGUCU	AUAUCUGA	31267
5193	5837	AUAUGUCU G UUGUGAUA	12893	UAUCACAA GCCGAAAGGCGAGUGAGGUCU	AGACAUUA	31268
5196	5834	UGUCUGUU G UGAUAACA	12894	UGUUAUCA GCCGAAAGGCGAGUGAGGUCU	AACAGACA	31269
5207	5823	AUAACAAA G UCCCAUUC	12895	GAUUGGGA GCCGAAAGGCGAGUGAGGUCU	UUUGUUAU	31270
5219	5811	CAAUCAUC G UUCUUAACA	12896	UGUAAGAA GCCGAAAGGCGAGUGAGGUCU	GAUGAUUG	31271
5234	5796	CAUUUUGG G UACUCCGU	12897	ACGGAGUA GCCGAAAGGCGAGUGAGGUCU	CCAAAUG	31272
5241	5789	GGUACUCC G UCUCGUAC	12898	GUACGAGA GCCGAAAGGCGAGUGAGGUCU	GGAGUACC	31273
5246	5784	UCCGUCUC G UACGACUU	12899	AAGUCUGA GCCGAAAGGCGAGUGAGGUCU	GAGACGGA	31274
5258	5772	GACUUUCU G UUCAUUG	12900	CAAUUGAA GCCGAAAGGCGAGUGAGGUCU	CAAAAGUC	31275
5283	5747	UCUUUCCA G CACGUUGU	12901	ACAACGUG GCCGAAAGGCGAGUGAGGUCU	UGGAAAGA	31276
5287	5743	UCCAGCAC G UUGUAGGC	12902	GCCUACAA GCCGAAAGGCGAGUGAGGUCU	GUGCUUGA	31277
5290	5740	AGCACGUU G UAGGCAAA	12903	UUUGCCUA GCCGAAAGGCGAGUGAGGUCU	AACGUGCU	31278
5294	5736	CGUUGUAG G CAAAGGGC	12904	GCCCUUUG GCCGAAAGGCGAGUGAGGUCU	CUACAACG	31279
5301	5729	GGCAAAGG G CAUUCUCA	12905	UGAGAUUG GCCGAAAGGCGAGUGAGGUCU	CCUUUGCC	31280
5329	5701	GACACUAG G CACAAACC	12906	GGUUUGUG GCCGAAAGGCGAGUGAGGUCU	UGGAGUC	31281
5343	5687	ACCAAACC G UCUUCCCG	12907	CGGGAAGA GCCGAAAGGCGAGUGAGGUCU	GGUUUGGU	31282
5352	5678	UCUUCCCG G UGUUUCU	12908	AGAAUACA GCCGAAAGGCGAGUGAGGUCU	CGGGAAGA	31283
5354	5676	UUCGCCGU G UAUUCUGU	12909	ACAGAAUA GCCGAAAGGCGAGUGAGGUCU	ACCGGGAA	31284
5361	5669	UGUAUUCU G UGAUCCAU	12910	AUGGAUCA GCCGAAAGGCGAGUGAGGUCU	AGAAUACA	31285
5372	5658	AUCCAUC G UAUCCAGA	12911	UCUGGAUA GCCGAAAGGCGAGUGAGGUCU	GAAUGGAU	31286
5381	5649	UAUCCAGA G UUCCAAGC	12912	GCUUGGAA GCCGAAAGGCGAGUGAGGUCU	UCUGGAUA	31287
5388	5642	AGUCCAA G CUCGAUCC	12913	GGAUUCGAG GCCGAAAGGCGAGUGAGGUCU	UUGGAACU	31288
5406	5624	GGAUUCA G UCUGUAAG	12914	CUUACAGA GCCGAAAGGCGAGUGAGGUCU	UGAGAUCC	31289
5410	5620	CUAGUCU G UAGUCGG	12915	CCGACUUA GCCGAAAGGCGAGUGAGGUCU	AGACUGAG	31290
5414	5616	GUCUGUAA G UCGGAAAU	12916	AUUUCCGA GCCGAAAGGCGAGUGAGGUCU	UUACAGAC	31291
5425	5605	GGAAUUG G UGAAUUGG	12917	CCAAUUGA GCCGAAAGGCGAGUGAGGUCU	CAAUUUCC	31292
5454	5576	GAUCUGAA G UGCCUGGU	12918	ACCAGUCA GCCGAAAGGCGAGUGAGGUCU	UUCGAGUC	31293
5456	5574	UCUGAAGU G CCUGGUGG	12919	CCACCGAG GCCGAAAGGCGAGUGAGGUCU	ACCUAGCA	31294
5461	5569	AGUGCCUG G UGGGUGGG	12920	CCACCCCA GCCGAAAGGCGAGUGAGGUCU	CAGGCACU	31295
5466	5564	CUGUGGG G UGGCUGUC	12921	GACAGCCA GCCGAAAGGCGAGUGAGGUCU	CCCACCAG	31296
5469	5561	GUGGGGUG G CUGUCAUG	12922	CAUGACAG GCCGAAAGGCGAGUGAGGUCU	CACCCAC	31297
5472	5558	GGGUGGCU G UCAUGAAU	12923	AUUCAGUA GCCGAAAGGCGAGUGAGGUCU	AGCCACCC	31298
5484	5546	UGAAUAUU G CCGCCGCC	12924	GGCGGCG GCCGAAAGGCGAGUGAGGUCU	AAUAUUA	31299
5487	5543	AUAUUGCC G CCGCCUCC	12925	GAGGCGG GCCGAAAGGCGAGUGAGGUCU	GGCAUAU	31300
5490	5540	UUGCCGCC G CUCUCCCU	12926	AGGGGAGG GCCGAAAGGCGAGUGAGGUCU	GGCGGCAA	31301
5500	5530	CUCUCCUA G CUCGACCU	12927	AGGUCGAG GCCGAAAGGCGAGUGAGGUCU	UAGGGGAG	31302
5511	5519	CGACCUUU G UGGAUUG	12928	CAUUUCCA GCCGAAAGGCGAGUGAGGUCU	AAAGGUCG	31303
5519	5511	GUGGAAAU G UAACUUCU	12929	AGAGGUUA GCCGAAAGGCGAGUGAGGUCU	AUUUCCAC	31304
5529	5501	AACCUUCU G CUGCAAUG	12930	CAUUGCAG GCCGAAAGGCGAGUGAGGUCU	AAGAGGUU	31305
5532	5498	CUCUUGCU G CAAUGCUA	12931	UAGCAUUG GCCGAAAGGCGAGUGAGGUCU	AGCAAGAG	31306
5537	5493	GCUGCAAU G CUAGCUGG	12932	CCAGCUAG GCCGAAAGGCGAGUGAGGUCU	AUUGCAGC	31307
5541	5489	CAAUGCUA G CUGGGUCG	12933	CGACCCAG GCCGAAAGGCGAGUGAGGUCU	UAGCAUUG	31308
5546	5484	CUAGCUGG G UCGGUGAA	12934	UUCACCGA GCCGAAAGGCGAGUGAGGUCU	CCAGCUAG	31309
5550	5480	CUGGGUCG G UGAAAUUA	12935	UCAUUUCA GCCGAAAGGCGAGUGAGGUCU	CGACCCAG	31310
5559	5471	UGAAAUUA G CCUCAUCC	12936	GGAUAGAG GCCGAAAGGCGAGUGAGGUCU	UCAUUUCA	31311
5579	5451	ACGAACAG G UUGUAGUU	12937	AACUACAA GCCGAAAGGCGAGUGAGGUCU	CUGUUCGU	31312
5582	5448	AACAGGUU G UAGUUCGG	12938	CCGAACUA GCCGAAAGGCGAGUGAGGUCU	ACCCUGUU	31313
5585	5445	AGGUUGUA G UUCGGCAC	12939	GUGCCGAA GCCGAAAGGCGAGUGAGGUCU	UACAACCU	31314
5590	5440	GUAGUUCG G CACCCUGU	12940	ACAGGGUG GCCGAAAGGCGAGUGAGGUCU	CGAACUAC	31315
5597	5433	GGCACCCU G UGAGGAGA	12941	UCUCCUCA GCCGAAAGGCGAGUGAGGUCU	AGGGUGCC	31316
5611	5419	AGACAUA G CCUGUGGG	12942	CCCACAGG GCCGAAAGGCGAGUGAGGUCU	UGAUGUCU	31317
5615	5415	AUCAGCCU G UGGGUGAG	12943	CUCACCCA GCCGAAAGGCGAGUGAGGUCU	AGGCUUAU	31318
5619	5411	GCCUGUGG G UGAGGUUA	12944	UACCCUCA GCCGAAAGGCGAGUGAGGUCU	CCACAGGC	31319
5625	5405	GGGUGAGG G UAGCAUGA	12945	UCAUGCUA GCCGAAAGGCGAGUGAGGUCU	CCUACCCC	31320
5628	5402	UGAGGGUA G CAUGACAC	12946	GUGUCAUG GCCGAAAGGCGAGUGAGGUCU	UACCCUCA	31321
5665	5365	UCCAUAU G UUCUCUGG	12947	CCAGAGAA GCCGAAAGGCGAGUGAGGUCU	AUAUUGGA	31322
5674	5356	UUCUCUGG G CACUGCGG	12948	CCGAGUG GCCGAAAGGCGAGUGAGGUCU	CCAGAGAA	31323
5679	5351	UGGBCACU G CCGAUGUC	12949	GACAUCCG GCCGAAAGGCGAGUGAGGUCU	AGUGCCCA	31324

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5685	5345	CUGCGGAU G UCUGGUAC	12950	GUACCAGA GCCGAAAGGCGAGUGAGGUCU	AUCCGCAG	31325
5690	5340	GAUGUCUG G UACCGGAU	12951	AUCCGGUA GCCGAAAGGCGAGUGAGGUCU	CAGACAUC	31326
5701	5329	CCGGAUGG G CAGUCCUC	12952	GAGGACUG GCCGAAAGGCGAGUGAGGUCU	CCAUCCGG	31327
5704	5326	GAUGGGCA G UCCUCUCA	12953	UGAGAGGA GCCGAAAGGCGAGUGAGGUCU	UGCCCAUC	31328
5713	5317	UCCUCUCA G UGCUUCAG	12954	CUGAAGCA GCCGAAAGGCGAGUGAGGUCU	UGAGAGGA	31329
5715	5315	CUCUCAGU G CUUCAGCC	12955	GGCUGAAG GCCGAAAGGCGAGUGAGGUCU	ACUGAGAG	31330
5721	5309	GUGCUUCA G CCAUCUCA	12956	UGAGAUUG GCCGAAAGGCGAGUGAGGUCU	UGAAGCAC	31331
5730	5300	CCAUCUCA G CAGCCACA	12957	UGUGGCUU GCCGAAAGGCGAGUGAGGUCU	UGAGAUUG	31332
5733	5297	UCUCAGCA G CCACAACC	12958	GGUUGUGG GCCGAAAGGCGAGUGAGGUCU	UGCUGAGA	31333
5745	5285	CAACCCUG G UUGGUGCU	12959	AGCACCAA GCCGAAAGGCGAGUGAGGUCU	CAGGGUUG	31334
5749	5281	CCUGGUUG G UGCUAGCA	12960	UGCUAGCA GCCGAAAGGCGAGUGAGGUCU	CAACCAGG	31335
5751	5279	UGGUUGGU G CUAGCACG	12961	CGUGCUAG GCCGAAAGGCGAGUGAGGUCU	ACCAACCA	31336
5755	5275	UGUGCUUA G CACGGCUG	12962	CAGCCGUG GCCGAAAGGCGAGUGAGGUCU	UAGACCA	31337
5760	5270	CUAGCACG G CUGUUCUC	12963	GAGAACAG GCCGAAAGGCGAGUGAGGUCU	CGUGCUAG	31338
5763	5267	GCACGGCU G UUCUCAGU	12964	ACUGAGAA GCCGAAAGGCGAGUGAGGUCU	AGCCGUGC	31339
5770	5260	UGUUCUCA G UCUUCUGU	12965	GCCGAAAGGCGAGUGAGGUCU	UGAGAACA	31340
5777	5253	AGUCUUCU G UUUUUGGC	12966	GCCAUAAA GCCGAAAGGCGAGUGAGGUCU	AGAAGACU	31341
5784	5246	UGUUUAUG G CCUCUUUG	12967	CAAAGAGG GCCGAAAGGCGAGUGAGGUCU	CAUAAACA	31342
5800	5230	GAUGAUCU G UGGCAGAA	12968	UUCUGCCA GCCGAAAGGCGAGUGAGGUCU	AGAUCAUC	31343
5803	5227	GAUCUGUG G CAGAAUCC	12969	GGAUUCUG GCCGAAAGGCGAGUGAGGUCU	CACAGAUC	31344
5817	5213	UCCUCCUU G UUUUACCG	12970	CGGUAAA GCCGAAAGGCGAGUGAGGUCU	AAGGAGGA	31345
5826	5204	UUUUAACG G CGCCGGGA	12971	UCCCGCGG GCCGAAAGGCGAGUGAGGUCU	CGGUAAAA	31346
5828	5202	UUACCGGC G CCGGGAUG	12972	CAUCCCGG GCCGAAAGGCGAGUGAGGUCU	GCCGUUAA	31347
5845	5185	GAGAUCCA G UACAGUGA	12973	UCACUGUA GCCGAAAGGCGAGUGAGGUCU	UGGAUCUC	31348
5850	5180	CCAGUACA G UGAUCUGU	12974	ACAGAUCA GCCGAAAGGCGAGUGAGGUCU	UGUACUGG	31349
5857	5173	AGUGAUCU G UUUUUUCC	12975	GGAAAAAA GCCGAAAGGCGAGUGAGGUCU	AGAUACAU	31350
5869	5161	UUUCCUCA G CAUCUCAG	12976	CUGAGAUU GCCGAAAGGCGAGUGAGGUCU	UGAGGAAA	31351
5878	5152	CAUCUCAG G UUCGAAUC	12977	GAUUCGAA GCCGAAAGGCGAGUGAGGUCU	CUGAGAUG	31352
5889	5141	CGAAUCCG G CUGGGAUU	12978	AAUCCGAG GCCGAAAGGCGAGUGAGGUCU	CGGAUUCG	31353
5899	5131	UGGGAUUG G CUCAUCCA	12979	UGGAUGAG GCCGAAAGGCGAGUGAGGUCU	CAAUCCCA	31354
5920	5110	UUCACCCU G CACUAUCG	12980	CGAUAGUG GCCGAAAGGCGAGUGAGGUCU	AGGGUGAA	31355
5928	5102	GCACUAUC G CGCUUAUG	12981	CAUAAGCG GCCGAAAGGCGAGUGAGGUCU	GAUAGUGC	31356
5930	5100	ACUAUCGC G CUUAUGUA	12982	UACAUAAU GCCGAAAGGCGAGUGAGGUCU	GCGAUAGU	31357
5936	5094	GCGCUUAU G UAUGAGCC	12983	GGCUCAUA GCCGAAAGGCGAGUGAGGUCU	AUAAGCGC	31358
5942	5088	AUGUAUGA G CCGUUGGG	12984	CCCAACGG GCCGAAAGGCGAGUGAGGUCU	UCAUAUUA	31359
5945	5085	UAUGAGCC G UUGGGCAU	12985	AUGCCCAA GCCGAAAGGCGAGUGAGGUCU	GGCUCAUA	31360
5950	5080	GCCGUUGG G CAUUAUGA	12986	UCAUAAUG GCCGAAAGGCGAGUGAGGUCU	CCAACGGC	31361
5966	5064	ACUCCAUA G CCAUAAAG	12987	CUUUAUGG GCCGAAAGGCGAGUGAGGUCU	AAUGGAGU	31362
5974	5056	GCCAUAAA G CCCAAUCA	12988	UGAUUGGG GCCGAAAGGCGAGUGAGGUCU	UUUAUGGC	31363
5990	5040	ACAUCACC G UUUUUGUC	12989	GACAAAAA GCCGAAAGGCGAGUGAGGUCU	GGUGAUGU	31364
5996	5034	CCGUUUUU G UCCACUAU	12990	AUAGUGGA GCCGAAAGGCGAGUGAGGUCU	AAAACCGG	31365
6007	5023	CACUAUUG G UGAGCCUG	12991	CAGGCUCA GCCGAAAGGCGAGUGAGGUCU	CAUAUAGU	31366
6011	5019	AUUGGUGA G CCUGAUGU	12992	ACAUCAGG GCCGAAAGGCGAGUGAGGUCU	UCACCAAU	31367
6018	5012	AGCCUGAU G UUCCAGUG	12993	CACUGGAA GCCGAAAGGCGAGUGAGGUCU	AUCAGGCU	31368
6024	5006	AUGUCCA G UGGGGGAG	12994	CUUCCCCA GCCGAAAGGCGAGUGAGGUCU	UGGAACAU	31369
6032	4998	GUGGGGAA G UCCAAAGU	12995	ACUUUGGA GCCGAAAGGCGAGUGAGGUCU	UUCCCCAC	31370
6039	4991	AGUCCAAA G UCACGGCC	12996	GGCCUGGA GCCGAAAGGCGAGUGAGGUCU	UUUGGACU	31371
6045	4985	AAGUCACG G CCCCAGUU	12997	AAUCGGGG GCCGAAAGGCGAGUGAGGUCU	CGUGACUU	31372
6064	4966	UCCUUCAG G UGUUUUGA	12998	UCAAAACA GCCGAAAGGCGAGUGAGGUCU	CUGAAGGA	31373
6066	4964	CUUCAGGU G UUUUGAAC	12999	GUUCAAAA GCCGAAAGGCGAGUGAGGUCU	ACCUGAAG	31374
6082	4948	CACCCUG G UUUUGUCU	13000	AGACGAAA GCCGAAAGGCGAGUGAGGUCU	CAGGGGUG	31375
6087	4943	CUGGUUUC G UCUGGACG	13001	CGUCCAGA GCCGAAAGGCGAGUGAGGUCU	GAAACCAG	31376
6095	4935	GUCUGGAC G UUCUUAAC	13002	GUUAAGAA GCCGAAAGGCGAGUGAGGUCU	GUCCAGAC	31377
6104	4926	UUCUUAAC G UUCUUGCC	13003	GGCAAGAA GCCGAAAGGCGAGUGAGGUCU	GUUAAGAA	31378
6110	4920	ACGUUCUU G CCAGGUUC	13004	GAACCUUG GCCGAAAGGCGAGUGAGGUCU	AAGAACGU	31379
6115	4915	CUUGCCAG G UUCCACCA	13005	UGGUGGAA GCCGAAAGGCGAGUGAGGUCU	CUGGCAAG	31380
6133	4897	AAUCAUCU G CACCUCAU	13006	AUGAGGUG GCCGAAAGGCGAGUGAGGUCU	AGAUGAUU	31381
6145	4885	CUCAUCCU G CCGUUCU	13007	GGAAACGG GCCGAAAGGCGAGUGAGGUCU	AGGAUGAG	31382
6149	4881	UCCUGCCC G UUCCACUU	13008	AAGUGGAA GCCGAAAGGCGAGUGAGGUCU	GGGCAGGA	31383
6158	4872	UUCACUUG G UGCUGCAA	13009	UUGCAGCA GCCGAAAGGCGAGUGAGGUCU	AAUGUGAA	31384
6160	4870	CCACUUGU G CUGCAAUU	13010	AAUUGCAG GCCGAAAGGCGAGUGAGGUCU	ACAAGUGG	31385
6163	4867	CUUGUGCU G CAAUUCU	13011	GGAAAUUG GCCGAAAGGCGAGUGAGGUCU	AGCACAAG	31386

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6175	4855	UUUCCAGG G UCCUCCGU	13012	ACGGAGGA GCCGAAAGGCGAGUGAGGUCU	CCUGGAAA	31387
6182	4848	GGUCCUCC G UAACAAAG	13013	CUUUGUUA GCCGAAAGGCGAGUGAGGUCU	GGAGGACC	31388
6190	4840	GUAACAAA G UCGAUCCU	13014	AGGAUCGA GCCGAAAGGCGAGUGAGGUCU	UUUGUUAC	31389
6209	4821	UUGACACU G CCCAGUA	13015	UACUGGGG GCCGAAAGGCGAGUGAGGUCU	AGUGUCAA	31390
6215	4815	CUGCCCCA G UAUGGGUC	13016	GACCCAUA GCCGAAAGGCGAGUGAGGUCU	UGGGGCAG	31391
6221	4809	CAGUAUGG G UCCAGGCG	13017	CGCCUGGA GCCGAAAGGCGAGUGAGGUCU	CCAUAUCG	31392
6227	4803	GGGUCCAG G CGGCCUUC	13018	GAGGGCGG GCCGAAAGGCGAGUGAGGUCU	CUGGACCC	31393
6230	4800	UCCAGGCG G CCCUCUCC	13019	GGAGAGGG GCCGAAAGGCGAGUGAGGUCU	CGCCUGGA	31394
6239	4791	CCCUCUCC G CUCAUCAA	13020	UGAUGAGG GCCGAAAGGCGAGUGAGGUCU	GGAGAGGG	31395
6249	4781	UCAUCAA G CGGCUCU	13021	AGGAGCCG GCCGAAAGGCGAGUGAGGUCU	UUUGAUGA	31396
6252	4778	UCAAAGCG G CUCCUUU	13022	AAAAGGAG GCCGAAAGGCGAGUGAGGUCU	CGCUUUGA	31397
6261	4769	CUCCUUU G UUGUAUGC	13023	GCAUACAA GCCGAAAGGCGAGUGAGGUCU	AAAAGGAG	31398
6264	4766	CUUUGUU G UAUGCCAA	13024	UUGGCAUA GCCGAAAGGCGAGUGAGGUCU	AACAAAAG	31399
6268	4762	UGUUGUAU G CCAAAGGG	13025	CCCUUUGG GCCGAAAGGCGAGUGAGGUCU	AUACAACA	31400
6276	4754	GCCAAAGG G UGUGGAAA	13026	UUUCCACA GCCGAAAGGCGAGUGAGGUCU	CCUUUGGC	31401
6278	4752	CAAGGGU G UGGAAGAA	13027	GUUUUCCA GCCGAAAGGCGAGUGAGGUCU	ACCCUUUG	31402
6302	4728	ACCAUCAC G CCCGUCC	13028	GGAGCGGG GCCGAAAGGCGAGUGAGGUCU	GUGAUGGU	31403
6306	4724	UACGCCCC G CUCCUGCU	13029	AGCAGGAG GCCGAAAGGCGAGUGAGGUCU	GGGCGUGA	31404
6312	4718	CCGCUCU G CUUGAUAA	13030	UUUAUCAAG GCCGAAAGGCGAGUGAGGUCU	AGCAGCGG	31405
6323	4707	UGAUAACT G CCGAGCAG	13031	CUGCUCGG GCCGAAAGGCGAGUGAGGUCU	AGUUUAUC	31406
6328	4702	ACUGCCGA G CAGCCAC	13032	GUGGGCUG GCCGAAAGGCGAGUGAGGUCU	UCGCGAGU	31407
6331	4699	GCCGAGCA G CCCACGAG	13033	CUCGUGGG GCCGAAAGGCGAGUGAGGUCU	UGCUCGGC	31408
6339	4691	GCCCACGA G UCAUGAUC	13034	GAUCAUGA GCCGAAAGGCGAGUGAGGUCU	UCGUGGGC	31409
6350	4680	AUGAUCCU G UAGACGCC	13035	GCGUCUA GCCGAAAGGCGAGUGAGGUCU	AGGAUCAU	31410
6356	4674	CUGUAGAC G CCGUGGU	13036	ACCACCGG GCCGAAAGGCGAGUGAGGUCU	GUUUAACAG	31411
6360	4670	AGACGCCG G UGUUCGUG	13037	CACGACCA GCCGAAAGGCGAGUGAGGUCU	CGGCGUCU	31412
6363	4667	CGCCGGUG G UCGUGUCC	13038	GGACACGA GCCGAAAGGCGAGUGAGGUCU	CACCGGCG	31413
6366	4664	CGGUGGUC G UGUCCCC	13039	GGGGGACA GCCGAAAGGCGAGUGAGGUCU	GACCACCG	31414
6368	4662	GUGGUCGU G UCCCCCU	13040	AAGGGGGA GCCGAAAGGCGAGUGAGGUCU	ACGACCAC	31415
6380	4650	CCUUUUU G UACUCCU	13041	AAGGUAUA GCCGAAAGGCGAGUGAGGUCU	AAAAAGGG	31416
6391	4639	CUCCUUUG G UGAGGGAG	13042	UAGCGUA GCCGAAAGGCGAGUGAGGUCU	CAAAGGAG	31417
6399	4631	GUGAGGGA G UGUCCAC	13043	GUGGGACA GCCGAAAGGCGAGUGAGGUCU	UCCUCAC	31418
6401	4629	GAGGGAGU G UCCACAA	13044	UUGUGGGA GCCGAAAGGCGAGUGAGGUCU	ACUCCUC	31419
6413	4617	CACAACAC G CCUCCUCU	13045	AGAGGAGG GCCGAAAGGCGAGUGAGGUCU	GUGUUGUG	31420
6426	4604	CUCUCUUU G UGUUUUG	13046	CCAAUACA GCCGAAAGGCGAGUGAGGUCU	AAAGAGAG	31421
6428	4602	CUCUUUGU G UAUUGGAG	13047	CUCCAAUA GCCGAAAGGCGAGUGAGGUCU	ACAAAGAG	31422
6438	4592	AUUGGAGA G UUAUCCAA	13048	UUGGAUAA GCCGAAAGGCGAGUGAGGUCU	UCUCCAAU	31423
6463	4567	UACUGAGG G CAAGAUG	13049	CAAUUCUG GCCGAAAGGCGAGUGAGGUCU	CCUCAGUA	31424
6471	4559	GCAAGAUU G CCCAGGGG	13050	CCCCUGGG GCCGAAAGGCGAGUGAGGUCU	AAUCUUGC	31425
6480	4550	CCCAGGGG G UGUACGCA	13051	UGCGUACA GCCGAAAGGCGAGUGAGGUCU	CCCCUGGG	31426
6482	4548	CAGGGGGU G UACGCACU	13052	AGUGCGUA GCCGAAAGGCGAGUGAGGUCU	ACCCCUUG	31427
6486	4544	GGGUGUAC G CACUAAUC	13053	GAUUAUGG GCCGAAAGGCGAGUGAGGUCU	GUACACCC	31428
6495	4535	CACUAAUC G CGAGACAG	13054	CUGUCUCG GCCGAAAGGCGAGUGAGGUCU	GAUUAUGG	31429
6514	4516	CAUUCUGA G CAUCCAUA	13055	UAUGGAUG GCCGAAAGGCGAGUGAGGUCU	UCAGAUG	31430
6532	4498	CUUCCAAG G UGUCCUG	13056	CAGGAGCA GCCGAAAGGCGAGUGAGGUCU	CUUGGAAG	31431
6534	4496	UCCAAGGU G CUCCUGGA	13057	UCCAGGAG GCCGAAAGGCGAGUGAGGUCU	ACCUUGGA	31432
6553	4477	AUUCAUUA G CUGGAAGU	13058	ACUUCAG GCCGAAAGGCGAGUGAGGUCU	UCAUGAAU	31433
6560	4470	AGCUGGAA G UUUCCAUC	13059	GAUGGAAA GCCGAAAGGCGAGUGAGGUCU	UUCCAGCU	31434
6577	4453	AUCAUCAA G CCGACAU	13060	AUGUGCGG GCCGAAAGGCGAGUGAGGUCU	UUUGAUGU	31435
6580	4450	AUCAAGCC G CACAUCAA	13061	UUGAUGUG GCCGAAAGGCGAGUGAGGUCU	GGCUUGAU	31436
6596	4434	ACUCUUUC G CUCGAGCC	13062	GGCUCGAG GCCGAAAGGCGAGUGAGGUCU	GAAAGAGU	31437
6602	4428	UCGUCUGA G CCUGUAAU	13063	AUUACAGG GCCGAAAGGCGAGUGAGGUCU	UCGAGCGA	31438
6606	4424	UCGAGCCU G UAAUUUCU	13064	AGAAUUAU GCCGAAAGGCGAGUGAGGUCU	AGGCUUGA	31439
6615	4415	UAAUUUCU G CAUCACUU	13065	AAGUGAUG GCCGAAAGGCGAGUGAGGUCU	AGAAAUUA	31440
6635	4395	CAGGAAAU G UCCGCCGU	13066	ACGGCGAG GCCGAAAGGCGAGUGAGGUCU	AUUUCCUG	31441
6639	4391	AAAUGUCC G CCGUUCUC	13067	GAGAACGG GCCGAAAGGCGAGUGAGGUCU	GGACAUUU	31442
6642	4388	UGUCCGCC G UUCUCUCA	13068	UGAGAGAA GCCGAAAGGCGAGUGAGGUCU	GGCGGACA	31443
6663	4367	ACAUUAUCU G UUGAUUUC	13069	GAAAUCAA GCCGAAAGGCGAGUGAGGUCU	AGAUUUGU	31444
6687	4343	UCACGAAA G CAGCAAAC	13070	GUUUGCUG GCCGAAAGGCGAGUGAGGUCU	UUUCGUGA	31445
6690	4340	CGAAAGCA G CAAACAUG	13071	CAUGUUUG GCCGAAAGGCGAGUGAGGUCU	UGCUUUCG	31446
6700	4330	AAACAUGA G CCCCGCA	13072	UCGCGGGG GCCGAAAGGCGAGUGAGGUCU	UCAUGUUU	31447
6705	4325	UGAGCCCC G CGAUAGUC	13073	GACUAUCG GCCGAAAGGCGAGUGAGGUCU	GGGCUCA	31448

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6711	4319	CCGCGAUA G UCAUUGGA	13074	UCCAAUGA GCCGAAAGGCGAGUGAGGUCU UAUCGCGG	31449
6723	4307	UUGGAAUG G CCAUGGAG	13075	CUCCAUGG GCCGAAAGGCGAGUGAGGUCU CAUUCCAA	31450
6731	4299	GCCAUGGA G UCAAUGUC	13076	GACAUUGA GCCGAAAGGCGAGUGAGGUCU UCCAUGGC	31451
6737	4293	GAGUCAAU G UCAAGCUC	13077	GAGCUUGA GCCGAAAGGCGAGUGAGGUCU AUUGACUC	31452
6742	4288	AAUGUCA A G CUCUGCCA	13078	UGGCAGAG GCCGAAAGGCGAGUGAGGUCU UUGACAUU	31453
6747	4283	CAAGCUCU G CCAGCCCU	13079	AGGGCUGG GCCGAAAGGCGAGUGAGGUCU AGAGCUUG	31454
6751	4279	CUCUGCCA G CCUCCTGA	13080	UCGGAGGG GCCGAAAGGCGAGUGAGGUCU UGGCAGAG	31455
6765	4265	CGACGAUG G CAAACAUU	13081	AAUGUUUG GCCGAAAGGCGAGUGAGGUCU CAUCGUCG	31456
6776	4254	AACAUIAG G CCGACAGC	13082	GCUGUCGG GCCGAAAGGCGAGUGAGGUCU CUAAUGUU	31457
6783	4247	GGCCGACA G CUGUCAUC	13083	GAUGACAG GCCGAAAGGCGAGUGAGGUCU UUGC GGCC	31458
6786	4244	CGACAGCU G UCAUCACU	13084	AGUGAUGA GCCGAAAGGCGAGUGAGGUCU AGCUGUCG	31459
6798	4232	UCACUICA G UUGCGGGC	13085	GCCCCGAA GCCGAAAGGCGAGUGAGGUCU UGAAGUGA	31460
6801	4229	CUUCAGUU G CGGGCCAU	13086	AUGGCCCG GCCGAAAGGCGAGUGAGGUCU AACUGAAG	31461
6805	4225	AGUUGCGG G CCAUCCGC	13087	GCUGAUGG GCCGAAAGGCGAGUGAGGUCU CCGCAACU	31462
6812	4218	GGCCAUCG G CGUUUACG	13088	CGUAAACG GCCGAAAGGCGAGUGAGGUCU GGAUGGCC	31463
6814	4216	CCAUCGCG G UUUACGGU	13089	ACCGUAAA GCCGAAAGGCGAGUGAGGUCU GCGGAUGG	31464
6821	4209	CGUUUACG G UUGGGAUC	13090	GAUCCCAA GCCGAAAGGCGAGUGAGGUCU CGUAAACG	31465
6834	4196	GAUCACAU G CAAUCAGU	13091	ACUGAUUG GCCGAAAGGCGAGUGAGGUCU AUGUUAUC	31466
6841	4189	UGCAAUCA G UCCAGCAG	13092	CUGCUGGA GCCGAAAGGCGAGUGAGGUCU UGAUUGCA	31467
6846	4184	UCAGUCCA G CAGCAAGG	13093	CCUUGCUG GCCGAAAGGCGAGUGAGGUCU UGGACUGA	31468
6849	4181	GUCCAGCA G CAAGGAUC	13094	GAUCCUUG GCCGAAAGGCGAGUGAGGUCU UGCUGGAC	31469
6863	4167	AUCAUGGG G UUGAAAAG	13095	CUUUUCA A GCCGAAAGGCGAGUGAGGUCU CCCAUGAU	31470
6871	4159	GUUGAAAA G UCCUGUUG	13096	CAACAGGA GCCGAAAGGCGAGUGAGGUCU UUUUCAAC	31471
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCUCA A GCCGAAAGGCGAGUGAGGUCU AGGACUUU	31472
6882	4148	CUGUUGAG G CUAGAGCC	13098	GGCUCUAG GCCGAAAGGCGAGUGAGGUCU CUCAACAG	31473
6888	4142	AGGCUAGA G CCAAGCAU	13099	AUGCUUGG GCCGAAAGGCGAGUGAGGUCU UCUAGCCU	31474
6893	4137	AGAGCCAA G CAUAGCAG	13100	CUGCUAUG GCCGAAAGGCGAGUGAGGUCU UUGGCUCU	31475
6898	4132	CAAGCAUA G CAGACUUG	13101	CAAGUCUG GCCGAAAGGCGAGUGAGGUCU UAUGCUUG	31476
6906	4124	GCAGACUU G CUCCUUUC	13102	GAAGAGGA GCCGAAAGGCGAGUGAGGUCU AAGUCUGC	31477
6921	4109	UCUUUUUU G CAGCUGCA	13103	UGCAGCUG GCCGAAAGGCGAGUGAGGUCU AAAAAGA	31478
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGUGCAG GCCGAAAGGCGAGUGAGGUCU UGCAAAAA	31479
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGUG GCCGAAAGGCGAGUGAGGUCU AGCUGCAA	31480
6950	4080	CUGAUCAA G CUGCCUAU	13106	AUAGGCAG GCCGAAAGGCGAGUGAGGUCU UUGAUCAG	31481
6953	4077	AUCAAGCU G CCUAUUC	13107	GGAAUAGG GCCGAAAGGCGAGUGAGGUCU AGCUUGAU	31482
6973	4057	CAUCAACA G CAGUAUCC	13108	GGUAUCUG GCCGAAAGGCGAGUGAGGUCU UGUUGAUG	31483
6976	4054	CAACAGCA G UAUCCUGU	13109	ACAGGAUA GCCGAAAGGCGAGUGAGGUCU UGCUUGUG	31484
6983	4047	AGUAUCCU G UACACAUC	13110	GAUGUGUA GCCGAAAGGCGAGUGAGGUCU AGGAUACU	31485
7001	4029	AGAUUCAA G CAUCUCAG	13111	CUGAGAUG GCCGAAAGGCGAGUGAGGUCU UUGAAUCU	31486
7009	4021	GCAUCUCA G CCGGGUG	13112	CACCCGGG GCCGAAAGGCGAGUGAGGUCU UGAGAUGC	31487
7015	4015	CAGCCCGG G UGUUAGCA	13113	UGCUAACA GCCGAAAGGCGAGUGAGGUCU CCGGGCUG	31488
7017	4013	GCCCGGGU G UUAGCAGG	13114	CCUGCUAA GCCGAAAGGCGAGUGAGGUCU ACCCGGGC	31489
7021	4009	GGUGUUUA G CAGGGCUA	13115	UAGCCCUA GCCGAAAGGCGAGUGAGGUCU UAACACCC	31490
7026	4004	UUAGCAGG G CUAGCAGC	13116	GCUGCUAG GCCGAAAGGCGAGUGAGGUCU CCUGCUAA	31491
7030	4000	CAGGGCUA G CAGCGGAA	13117	UUCGCGUG GCCGAAAGGCGAGUGAGGUCU UAGCCUG	31492
7033	3997	GGCUAGCA G CGGAACAA	13118	UUGUUCG GCCGAAAGGCGAGUGAGGUCU UGCUAGCC	31493
7046	3984	ACAACCAC G UUGAUGU	13119	ACAUCAAA GCCGAAAGGCGAGUGAGGUCU GUGGUUGU	31494
7053	3977	CGUUUGAU G UCGUUGUG	13120	CACAACGA GCCGAAAGGCGAGUGAGGUCU AUCAACG	31495
7056	3974	UUGAUGUC G UUGUGAAU	13121	AUUCACAA GCCGAAAGGCGAGUGAGGUCU GACAUCAA	31496
7059	3971	AUGUCGUU G UGAAUGUU	13122	AACAUUCA GCCGAAAGGCGAGUGAGGUCU AACACAUI	31497
7065	3965	UUGUGAAU G UUAUGGCU	13123	AGCCAUA A GCCGAAAGGCGAGUGAGGUCU AUUCACAA	31498
7071	3959	AUGUUUAG G CUCUCAGU	13124	ACUGAGAG GCCGAAAGGCGAGUGAGGUCU CAUAACAU	31499
7078	3952	GGCUCUCA G UAUCAUCC	13125	GGUUGAUA GCCGAAAGGCGAGUGAGGUCU UGAGAGCC	31500
7089	3941	UCAUCCAA G CUACCGCC	13126	GGCGGUAG GCCGAAAGGCGAGUGAGGUCU UUGGAUGA	31501
7095	3935	AAGCUACC G CCAUGGAA	13127	UUCACUGG GCCGAAAGGCGAGUGAGGUCU GGUAGCUU	31502
7099	3931	UACCGCCA G UGAAUUCA	13128	UUAUUUCA GCCGAAAGGCGAGUGAGGUCU UGGCGGUA	31503
7129	3901	CUCCAGAA G CAGAAUUA	13129	AAAUUCUG GCCGAAAGGCGAGUGAGGUCU UCUGGGAG	31504
7139	3891	AGAAUUGG G CGGGCAUC	13130	GAUGCCCG GCCGAAAGGCGAGUGAGGUCU CAAAUUCU	31505
7143	3887	UUUGGCGG G CAUCGUGA	13131	UCACGAUG GCCGAAAGGCGAGUGAGGUCU CCGCAAA	31506
7148	3882	CGGGCAUC G UGAUAAGC	13132	GCUUAUCA GCCGAAAGGCGAGUGAGGUCU GAUGCCCG	31507
7155	3875	CGUGAUAA G CCAUUUGA	13133	UCAAUUGG GCCGAAAGGCGAGUGAGGUCU UUAUCACG	31508
7173	3857	AGAAAACA G CCGCCAAC	13134	UUGGCCGG GCCGAAAGGCGAGUGAGGUCU UGUUUUCU	31509
7176	3854	AAACAGCC G CCAACAUC	13135	GAUGUUGG GCCGAAAGGCGAGUGAGGUCU GGCUGUUU	31510

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7193	3837	AACAAAU G UUCUCCUG	13136	CAGGAGAA GCCGAAAGGCGAGUGAGGUCU	AUUUUGUU	31511
7202	3828	UUCUCCUG G UUGGUCCA	13137	UGGACCAA GCCGAAAGGCGAGUGAGGUCU	CAGGAGAA	31512
7206	3824	CCUGGUG G UCCAUCUC	13138	GAGAUGGA GCCGAAAGGCGAGUGAGGUCU	CAACCAGG	31513
7215	3815	UCCAUCUC G CUUUGAGA	13139	UCUCAAG GCCGAAAGGCGAGUGAGGUCU	GAGAUGGA	31514
7230	3800	GAAACGAU G CCACCAUA	13140	UAUGGUGG GCCGAAAGGCGAGUGAGGUCU	AUCGUUUC	31515
7246	3784	AAACACUG G UUGUAUCU	13141	AGAUACAA GCCGAAAGGCGAGUGAGGUCU	CAGUGUUU	31516
7249	3781	CACUGGUU G UAUCUUGA	13142	UCAAGAU GCCGAAAGGCGAGUGAGGUCU	AACCAGUG	31517
7260	3770	UCUUGAAG G UCGCAUG	13143	CAUGGCCA GCCGAAAGGCGAGUGAGGUCU	CUUCAAGA	31518
7263	3767	UGAAGGUC G CCAUGAGC	13144	GCUCAUGG GCCGAAAGGCGAGUGAGGUCU	GACCUUCA	31519
7270	3760	CGCCAUGA G CGCCAAGU	13145	ACUUGGCG GCCGAAAGGCGAGUGAGGUCU	UCAUGGCG	31520
7272	3758	CCAUGAGC G CCAAGUGU	13146	ACACUUGG GCCGAAAGGCGAGUGAGGUCU	GCUCAUGG	31521
7277	3753	AGCGCCAA G UGUACCAC	13147	UGGUUACG GCCGAAAGGCGAGUGAGGUCU	UAUGCCGU	31522
7279	3751	CGCCAAGU G UACCACGU	13148	ACGUGGUA GCCGAAAGGCGAGUGAGGUCU	ACUUGGCG	31523
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GCCGAAAGGCGAGUGAGGUCU	GUGGUACA	31524
7308	3722	UAGAUUCU G CGAAAGCU	13150	AGCUUUCG GCCGAAAGGCGAGUGAGGUCU	AGAAUCUA	31525
7314	3716	CUGCGAAA G CUGCCCCC	13151	GGGGGCG GCCGAAAGGCGAGUGAGGUCU	UUUCGCG	31526
7317	3713	CGAAAGCU G CCCCACC	13152	GGUGGGGG GCCGAAAGGCGAGUGAGGUCU	AGCUUUCG	31527
7337	3693	AUGACAU G CGUAACAC	13153	UGGUUACG GCCGAAAGGCGAGUGAGGUCU	UAUGUCAU	31528
7339	3691	GACAUAGC G UAACACAU	13154	AUGUGUUA GCCGAAAGGCGAGUGAGGUCU	GCUAUGUC	31529
7350	3680	ACACAUA G UGUAAGUA	13155	UACUUAUA GCCGAAAGGCGAGUGAGGUCU	UGAUGUGU	31530
7352	3678	ACAUCAGU G UAAGUAAU	13156	AUUAUAUA GCCGAAAGGCGAGUGAGGUCU	ACUGAUGU	31531
7356	3674	CAGUGUAA G UAAUGCCC	13157	GGGCAUUA GCCGAAAGGCGAGUGAGGUCU	UUACACUG	31532
7361	3669	UAAGUAAU G CCCCAAA	13158	UUUGGGGG GCCGAAAGGCGAGUGAGGUCU	AUUUAUAU	31533
7381	3649	CAGGACUA G CAGAGCAA	13159	UUGUCUUG GCCGAAAGGCGAGUGAGGUCU	UAGUCCUG	31534
7386	3644	CUAGCAGA G CAUUCAGU	13160	ACUGAUUG GCCGAAAGGCGAGUGAGGUCU	UCUGCUAG	31535
7393	3637	AGCAAUA G UAUAGCUG	13161	CAGCUAUA GCCGAAAGGCGAGUGAGGUCU	UGAUUGCU	31536
7398	3632	UCAGUAUA G CUGGCAUG	13162	CAUGCCAG GCCGAAAGGCGAGUGAGGUCU	UAUACUGA	31537
7402	3628	UAUAGCUG G CAUGCUGA	13163	UCAGCAUG GCCGAAAGGCGAGUGAGGUCU	CAGCUAUA	31538
7406	3624	GCUGGCAU G CUGAUUUU	13164	AAGAUCAG GCCGAAAGGCGAGUGAGGUCU	AUGCCAGC	31539
7416	3614	UGAUCUUG G CUGUCCAC	13165	GUGGACAG GCCGAAAGGCGAGUGAGGUCU	CAAGAUAU	31540
7419	3611	UCUUGGCU G UCCACCUC	13166	GAGGUGGA GCCGAAAGGCGAGUGAGGUCU	AGCCAAGA	31541
7430	3600	CACCUCUU G CGAAGGAC	13167	GUCCUUCG GCCGAAAGGCGAGUGAGGUCU	AAGAGGUG	31542
7446	3584	CCUCCUGG G UGGCCAAG	13168	CUUGGCCA GCCGAAAGGCGAGUGAGGUCU	CCAGGAGG	31543
7449	3581	CCUGGGUG G CCAAGAAC	13169	GUUCUUGG GCCGAAAGGCGAGUGAGGUCU	CACCCAGG	31544
7469	3561	ACCAGAAG G CCCAACUG	13170	CAGUUGGG GCCGAAAGGCGAGUGAGGUCU	CUUCUGGU	31545
7484	3546	UGAAAAGG G UCAAUCAU	13171	AUGAUUGA GCCGAAAGGCGAGUGAGGUCU	CCUUUUAU	31546
7497	3533	UCAUAUCA G CAUUAUAA	13172	UUAUAUUG GCCGAAAGGCGAGUGAGGUCU	UGAUUAUGA	31547
7506	3524	CAUUAUAA G CAUUCACU	13173	AGUGAAUG GCCGAAAGGCGAGUGAGGUCU	UUAUAUUG	31548
7516	3514	AUUCACUU G UGACUGCA	13174	UGCAGUCA GCCGAAAGGCGAGUGAGGUCU	AAGUGAAU	31549
7522	3508	UUGUGACU G CACGAGGG	13175	CCUCUGUG GCCGAAAGGCGAGUGAGGUCU	AGUCACAA	31550
7530	3500	GCACGAGG G UCUUUUA	13176	UGAAAAGA GCCGAAAGGCGAGUGAGGUCU	CCUCGUGC	31551
7543	3487	UUAUCAU G UCUCUGUG	13177	CACAGAGA GCCGAAAGGCGAGUGAGGUCU	AUGAUGAA	31552
7549	3481	AUGUCUCU G UGGUCUGA	13178	UCAGACCA GCCGAAAGGCGAGUGAGGUCU	AGAGACAU	31553
7552	3478	UCUCUGUG G UCUGAUCU	13179	AGAUCAGA GCCGAAAGGCGAGUGAGGUCU	CACAGAGA	31554
7577	3453	UACCAACA G CCGCUGUC	13180	GACAGCGG GCCGAAAGGCGAGUGAGGUCU	UGUUGGUA	31555
7580	3450	CAACAGCC G CUGUCAGU	13181	ACUGACAG GCCGAAAGGCGAGUGAGGUCU	GGCUGUUG	31556
7583	3447	CAGCCGCU G UCAGUUUG	13182	CAAACUGA GCCGAAAGGCGAGUGAGGUCU	AGCGGUG	31557
7587	3443	CGCUGUCA G UUUGGUAG	13183	CUACCAA GCCGAAAGGCGAGUGAGGUCU	UGACAGCG	31558
7592	3438	UCAGUUUG G UAGCGCAG	13184	UGCGCUA GCCGAAAGGCGAGUGAGGUCU	CAAACUGA	31559
7595	3435	GUUUGGUA G CGCAGUGG	13185	CCACUGCG GCCGAAAGGCGAGUGAGGUCU	UACCAAAC	31560
7597	3433	UUGGUAGC G CAGUGGUG	13186	CACCACUG GCCGAAAGGCGAGUGAGGUCU	GTUACCAA	31561
7600	3430	GUAGCGCA G UGGUGGUA	13187	UACCACCA GCCGAAAGGCGAGUGAGGUCU	UGCGCUAC	31562
7603	3427	GCGCAGUG G UGGUAAGG	13188	CCUUAACA GCCGAAAGGCGAGUGAGGUCU	CACUGGCG	31563
7606	3424	CAGUGGUG G UAAGGUGC	13189	GCACCUUA GCCGAAAGGCGAGUGAGGUCU	CACCACUG	31564
7611	3419	GUGGUAAG G UGCAGCUC	13190	GAGCUGCA GCCGAAAGGCGAGUGAGGUCU	CUUACCAC	31565
7613	3417	GGUAAGGU G CAGUCCU	13191	AGGAGCUG GCCGAAAGGCGAGUGAGGUCU	ACCUUACC	31566
7616	3414	AAGGUGCA G CUCCUGCA	13192	UGCAGGAG GCCGAAAGGCGAGUGAGGUCU	UGCACCUU	31567
7622	3408	CAGCUCU G CAGACCA	13193	UGGUGCUG GCCGAAAGGCGAGUGAGGUCU	AGGAGCUG	31568
7625	3405	CUCCUGCA G CACCAUUC	13194	GAUUGGUG GCCGAAAGGCGAGUGAGGUCU	UGCAGGAG	31569
7635	3395	ACCAAUCU G UUAUCAAC	13195	GUUGAUAA GCCGAAAGGCGAGUGAGGUCU	AGAUUGGU	31570
7649	3381	AACUUUCC G CUCUCUGU	13196	ACAGAGAG GCCGAAAGGCGAGUGAGGUCU	GGAAAGUU	31571
7656	3374	CGCUCUCU G UGGUGGUG	13197	CACCACCA GCCGAAAGGCGAGUGAGGUCU	AGAGAGCG	31572

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7659	3371	UCUCUGUG G UGGUGCGA	13198	UCGCACCA GCCGAAAGGCGAGUGAGGUCU	CACAGAGA	31573
7662	3368	CUGUGGUG G UGCGAGUG	13199	CACUCGCA GCCGAAAGGCGAGUGAGGUCU	CACCACAG	31574
7664	3366	GUGGUGGU G CGAGUGGC	13200	GCCACUCG GCCGAAAGGCGAGUGAGGUCU	ACCACCAC	31575
7668	3362	UGGUGCGA G UGGCAGGU	13201	ACCUGCCA GCCGAAAGGCGAGUGAGGUCU	UCGCACCA	31576
7671	3359	UGCGAGUG G CAGGUCCA	13202	UGGACCUG GCCGAAAGGCGAGUGAGGUCU	CACUCGCA	31577
7675	3355	AGUGGCAG G UCCACGGU	13203	ACCGUGGA GCCGAAAGGCGAGUGAGGUCU	CUGCCACU	31578
7682	3348	GUUCCACG G UGUCCGCA	13204	UGCGGACA GCCGAAAGGCGAGUGAGGUCU	CGUGGACC	31579
7684	3346	UCCACGGU G UCCGCAGC	13205	GCUGCGGA GCCGAAAGGCGAGUGAGGUCU	ACCGUGGA	31580
7688	3342	CGUGUGCC G CAGCUCUC	13206	GAGAGCUG GCCGAAAGGCGAGUGAGGUCU	GGACACCG	31581
7691	3339	UGUCCGCA G CUCUCACU	13207	AGUGAGAG GCCGAAAGGCGAGUGAGGUCU	UGCGGACA	31582
7704	3326	CACUCAGG G UGACCGUA	13208	UACGGUCA GCCGAAAGGCGAGUGAGGUCU	CCUGAGUG	31583
7710	3320	GGGUGACC G UAGUCCU	13209	AGGAACUA GCCGAAAGGCGAGUGAGGUCU	GGUCACCC	31584
7713	3317	UGACCGUA G UUCUUGG	13210	CCCAGGAA GCCGAAAGGCGAGUGAGGUCU	UACGGUCA	31585
7721	3309	GUUCCUGG G CAGUAAUC	13211	GAUUAUCG GCCGAAAGGCGAGUGAGGUCU	CCAGGAAC	31586
7724	3306	CUUGGCA G UAAUCGAA	13212	UUCGAUUA GCCGAAAGGCGAGUGAGGUCU	UGCCACAG	31587
7733	3297	UAAUCGAA G UCAAUCUC	13213	GCCGAAAGGCGAGUGAGGUCU	UUCGAUUA	31588
7748	3282	UCUACCCG G CUCUCGUC	13214	GACGAAGG GCCGAAAGGCGAGUGAGGUCU	CGGGUAGA	31589
7754	3276	CGGCCUUC G UCCCAUGG	13215	CCAUGGGA GCCGAAAGGCGAGUGAGGUCU	GAAGGCCG	31590
7763	3267	UCCCAUGG G CCCUGGUU	13216	AACCAAGG GCCGAAAGGCGAGUGAGGUCU	CCAUGGGA	31591
7769	3261	GGGCCUCG G UUUUGUGU	13217	ACACAAAA GCCGAAAGGCGAGUGAGGUCU	CAGGGCCC	31592
7774	3256	CUGGUUUU G UGUCUUGU	13218	ACAAGACA GCCGAAAGGCGAGUGAGGUCU	AAAACCCAG	31593
7776	3254	GGUUUGU G UCUUGUAC	13219	GUACAAGA GCCGAAAGGCGAGUGAGGUCU	ACAAAACC	31594
7781	3249	UGUGUCUU G UACCCAGG	13220	CCUGGGUA GCCGAAAGGCGAGUGAGGUCU	ANAGACAA	31595
7789	3241	GUACCCAG G UCUCGUAU	13221	AUCGGAGA GCCGAAAGGCGAGUGAGGUCU	CUGGGUAC	31596
7799	3231	CUCCGAUU G UGAUUGCU	13222	AGCAAUCA GCCGAAAGGCGAGUGAGGUCU	AAUCGGAG	31597
7805	3225	UUGUGAUU G CUUCGUGG	13223	CCACGAAG GCCGAAAGGCGAGUGAGGUCU	AAUCACAA	31598
7810	3220	AUUGCUUC G UGGUCCCG	13224	CGGGACCA GCCGAAAGGCGAGUGAGGUCU	GAAGCAAU	31599
7813	3217	GCUCUGUG G UCCCGCCA	13225	UGGCGGGA GCCGAAAGGCGAGUGAGGUCU	CACGAAGC	31600
7818	3212	GUGGUCCC G CCAGUGUG	13226	CACACUGG GCCGAAAGGCGAGUGAGGUCU	GGGACCAC	31601
7822	3208	UCCCGCCA G UGUGACUG	13227	CAGUCACA GCCGAAAGGCGAGUGAGGUCU	UGGCGGGA	31602
7824	3206	CGGCCAGU G UGACUGGU	13228	ACCAGUCA GCCGAAAGGCGAGUGAGGUCU	ACUGGCCG	31603
7831	3199	UGUGACUG G UAUUAUCA	13229	UGAUUAUA GCCGAAAGGCGAGUGAGGUCU	CAGUCACA	31604
7841	3189	AUUAUCAA G UCACUCUC	13230	GAGAGUGA GCCGAAAGGCGAGUGAGGUCU	UUGAUAAU	31605
7862	3168	AUUCACUC G CCCACAA	13231	UUGUGGGG GCCGAAAGGCGAGUGAGGUCU	GAUGAAU	31606
7872	3158	CCCACAA G UAUUGGUC	13232	GACGCAUA GCCGAAAGGCGAGUGAGGUCU	CUUGUGGG	31607
7876	3154	CAAGGUAU G CGUCUCAG	13233	CUGAGACG GCCGAAAGGCGAGUGAGGUCU	AUACCUUG	31608
7878	3152	AGGUAUGC G UCUCAGGC	13234	GCCUGAGA GCCGAAAGGCGAGUGAGGUCU	GCAUACCU	31609
7885	3145	CGUCUCAG G CCACGUAC	13235	GUACGUGG GCCGAAAGGCGAGUGAGGUCU	CUGAGACG	31610
7890	3140	CAGGCCAC G UACAUGAU	13236	AUCAUGUA GCCGAAAGGCGAGUGAGGUCU	GUGGCCUG	31611
7917	3113	CCAGAACU G CCCUUUCA	13237	UGAAAGGG GCCGAAAGGCGAGUGAGGUCU	AGUUCUGG	31612
7927	3103	CCUUUCAA G CUUCCACG	13238	CGUGGAAG GCCGAAAGGCGAGUGAGGUCU	UUGAAAGG	31613
7935	3095	GCUCCAC G UAUCAUUG	13239	CAUUGAUA GCCGAAAGGCGAGUGAGGUCU	GUGGAAGC	31614
7945	3085	AUCAUGA G CCUGCUUU	13240	AAAGCAGG GCCGAAAGGCGAGUGAGGUCU	UCAUUGAU	31615
7949	3081	UUGAGCCU G CUUUCAAU	13241	AUUGAAAG GCCGAAAGGCGAGUGAGGUCU	AGGCUCAA	31616
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGUGA GCCGAAAGGCGAGUGAGGUCU	CUGUCCUA	31617
7976	3054	AGGUCACU G UGGAUCGC	13243	GCGAUCCA GCCGAAAGGCGAGUGAGGUCU	AGUGACCU	31618
7983	3047	UGUGGAUC G CCAAGUUG	13244	CAACUUGG GCCGAAAGGCGAGUGAGGUCU	GAUCCACA	31619
7988	3042	AUCGCCAA G UUGUUCUU	13245	AAGAACAA GCCGAAAGGCGAGUGAGGUCU	UUGGCGAU	31620
7991	3039	GCCAAGUU G UUCUUGAC	13246	GUCAAGAA GCCGAAAGGCGAGUGAGGUCU	AACUUGGC	31621
8001	3029	UCUUGACA G CCGUCCA	13247	UGGAACGG GCCGAAAGGCGAGUGAGGUCU	UGUCAAGA	31622
8004	3026	UGACAGCC G UUCCAAUG	13248	CAUUGGAA GCCGAAAGGCGAGUGAGGUCU	GGCUGUCA	31623
8021	3009	AUCUUGCA G UCACAUUC	13249	GAAUGUGA GCCGAAAGGCGAGUGAGGUCU	UCGAAGAU	31624
8031	2999	CACAUUCA G UUGUGUUG	13250	CAACACAA GCCGAAAGGCGAGUGAGGUCU	UGAAUGUG	31625
8034	2996	AUUCAGUU G UGUUGCUC	13251	GAGCAACA GCCGAAAGGCGAGUGAGGUCU	AACUGAAU	31626
8036	2994	UCAGUUGU G UUGCUCUC	13252	GAGAGCAA GCCGAAAGGCGAGUGAGGUCU	ACAACUGA	31627
8039	2991	GUUGUGUU G CUCUCUCU	13253	AGAGAGAG GCCGAAAGGCGAGUGAGGUCU	AACACAAC	31628
8067	2963	ACAUCCGA G UGCUGGUG	13254	CACCAGCA GCCGAAAGGCGAGUGAGGUCU	UCGGAUGU	31629
8069	2961	AUCCGAGU G CUGGUGAG	13255	CUACCCAG GCCGAAAGGCGAGUGAGGUCU	ACUCGGAU	31630
8073	2957	GAGUGCUG G UGAGACCA	13256	UGGUCUCA GCCGAAAGGCGAGUGAGGUCU	CAGCACUC	31631
8105	2925	ACUUCUAA G CUAUCCA	13257	UGGAUAG GCCGAAAGGCGAGUGAGGUCU	UUGAAAGU	31632
8115	2915	UAUJCCAA G CGCGAUUC	13258	GAAUCGCG GCCGAAAGGCGAGUGAGGUCU	UUGGAAUA	31633
8117	2913	UUCCAAGC G CGAUUCUG	13259	CAGAAUCG GCCGAAAGGCGAGUGAGGUCU	GCUUGGAA	31634

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8127	2903	GAUUCUGA G UCGACAU	13260	AUGUCCGA GCCGAAAGGCGAGUGAGGUCU	UCAGAAUC	31635
8142	2888	AUUCUUG G UCUCGGA	13261	UCCGGAGA GCCGAAAGGCGAGUGAGGUCU	CAAGGAAU	31636
8166	2864	CCACAAAG G UGUUGUG	13262	CAACAACA GCCGAAAGGCGAGUGAGGUCU	CUUUGUGG	31637
8168	2862	ACAAAGGU G UUGUUGG	13263	GCCAAACA GCCGAAAGGCGAGUGAGGUCU	ACCUUUGU	31638
8171	2859	AAGGUGU G UUGGCGAG	13264	CUCGCCAA GCCGAAAGGCGAGUGAGGUCU	AACACCUU	31639
8175	2855	UGUUGUG G CGAGUUCU	13265	AGAACUCG GCCGAAAGGCGAGUGAGGUCU	CAACAACA	31640
8179	2851	GUUGGCGA G UUCUGGUG	13266	CACCAGAA GCCGAAAGGCGAGUGAGGUCU	UCGCCAAC	31641
8185	2845	GAGUUCUG G UGCAAAUA	13267	UAUUGCA GCCGAAAGGCGAGUGAGGUCU	CAGAACUC	31642
8187	2843	GUUCUGGU G CAAAUAAA	13268	UUUAUUG GCCGAAAGGCGAGUGAGGUCU	ACCAGAAC	31643
8211	2819	UUCCCAG G CCUCCAG	13269	CUGGAAGG GCCGAAAGGCGAGUGAGGUCU	CUGGGGAA	31644
8219	2811	GCCUCCA G CCAAUUUC	13270	GAAAUUG GCCGAAAGGCGAGUGAGGUCU	UGGAAGGC	31645
8238	2792	AUUUUCC G UGGUGCG	13271	CGCCACCA GCCGAAAGGCGAGUGAGGUCU	GGAAAAAU	31646
8241	2789	UUUCCGUG G UGGCGGUG	13272	CACCGCCA GCCGAAAGGCGAGUGAGGUCU	CACGGA	31647
8244	2786	CCGUGGUG G CGUGAGG	13273	CCUACCG GCCGAAAGGCGAGUGAGGUCU	CACCACGG	31648
8247	2783	UGGUGCG G UGAGGCGU	13274	ACGCCUCA GCCGAAAGGCGAGUGAGGUCU	CGCCACCA	31649
8252	2778	GCGUGAG G CGUUUAGG	13275	CCUAAACG GCCGAAAGGCGAGUGAGGUCU	CUCACCGC	31650
8254	2776	GGUGAGG G UUUAGGUG	13276	CACCUAAA GCCGAAAGGCGAGUGAGGUCU	GCCUCACC	31651
8260	2770	GCGUUUAG G UGUGACU	13277	AGUCACGA GCCGAAAGGCGAGUGAGGUCU	CUAAACGC	31652
8262	2768	GUUUAGGU G CUGACUUG	13278	CAAGUCAG GCCGAAAGGCGAGUGAGGUCU	ACCUAAAC	31653
8270	2760	GCUGACUU G UACAUUC	13279	GGAAUGUA GCCGAAAGGCGAGUGAGGUCU	AAGUCAGC	31654
8284	2746	UCCCUCCU G UUUCUCAA	13280	UUGAGAAA GCCGAAAGGCGAGUGAGGUCU	AGGAGGGA	31655
8306	2724	ACACUAA G UCCACACC	13281	GGUGUGGA GCCGAAAGGCGAGUGAGGUCU	CUUAGUGU	31656
8331	2699	UCAAAGA G UGUUCAGC	13282	GCUGAACA GCCGAAAGGCGAGUGAGGUCU	UCUUUGA	31657
8333	2697	AAAAGAGU G UUCAGCUC	13283	GAGCUGAA GCCGAAAGGCGAGUGAGGUCU	ACUCUUUU	31658
8338	2692	AGUGUUA G CUCGUCCU	13284	AGGACGAG GCCGAAAGGCGAGUGAGGUCU	UGAACACU	31659
8342	2688	UUCAGCUC G UCCUUCAC	13285	GUGAAGGA GCCGAAAGGCGAGUGAGGUCU	GAGCUGAA	31660
8352	2678	CCUUCACU G CUUCCAC	13286	GUGGGAAG GCCGAAAGGCGAGUGAGGUCU	AGUGAAGG	31661
8368	2662	CAUUUGAU G CUCCAGUC	13287	GACUGGAG GCCGAAAGGCGAGUGAGGUCU	AUCAAUUG	31662
8374	2656	AUGCUCCA G UCUGGAAA	13288	UUUCCAGA GCCGAAAGGCGAGUGAGGUCU	UGGAGCAU	31663
8389	2641	AACUGAU G UAGACCGC	13289	CGGUGUA GCCGAAAGGCGAGUGAGGUCU	GAUCAGUU	31664
8396	2634	CGUAGACC G CACAUCC	13290	GGAGUGUG GCCGAAAGGCGAGUGAGGUCU	GGUUAACG	31665
8415	2615	CCUUAUGA G CUUUCUGA	13291	UCAGAAAG GCCGAAAGGCGAGUGAGGUCU	UCAUAAGG	31666
8433	2597	UGAUCUUG G CUAGCCU	13292	AGGCCUAG GCCGAAAGGCGAGUGAGGUCU	CAAGAUCA	31667
8438	2592	UUGGCUAG G CCUUGUGG	13293	CCACAAGG GCCGAAAGGCGAGUGAGGUCU	CUAGCCAA	31668
8443	2587	UAGGCCUU G UGGCGUUU	13294	AAACGCCA GCCGAAAGGCGAGUGAGGUCU	AAGGCCUA	31669
8446	2584	GCCUUGUG G CGUUUCAG	13295	CUGAAACG GCCGAAAGGCGAGUGAGGUCU	CACAAGGC	31670
8448	2582	CUUGUGGC G UUUCAGGG	13296	CCUGGAAA GCCGAAAGGCGAGUGAGGUCU	GCCACAAG	31671
8456	2574	GUUUCAGG G UAAUACUU	13297	AAGUAUUA GCCGAAAGGCGAGUGAGGUCU	CCUGAAAC	31672
8465	2565	UAAUACUU G UACCGGUC	13298	GACCGGUA GCCGAAAGGCGAGUGAGGUCU	AAGUAUUA	31673
8471	2559	UUGUACCG G UCCAUCCA	13299	UGGAUGGA GCCGAAAGGCGAGUGAGGUCU	CGGUACAA	31674
8481	2549	CCAUCCAA G CCUCCACA	13300	UGUGGAGG GCCGAAAGGCGAGUGAGGUCU	UUGGAUGG	31675
8495	2535	ACAUAUU G UGUUUGAA	13301	UUCAUACA GCCGAAAGGCGAGUGAGGUCU	AAUGAUGU	31676
8497	2533	AUCAUUGU G UAGAACA	13302	UUUUAUA GCCGAAAGGCGAGUGAGGUCU	ACAUAUGU	31677
8524	2506	ACAUCUCA G CUCUUGCC	13303	GGCAAGAG GCCGAAAGGCGAGUGAGGUCU	UCAGAUGU	31678
8530	2500	CAGCUCUU G CCGGUGA	13304	UCAGCCGG GCCGAAAGGCGAGUGAGGUCU	AAGAGCUG	31679
8534	2496	UCUUGCCG G CUGAUGUC	13305	GACAUCAG GCCGAAAGGCGAGUGAGGUCU	CGGCAAGA	31680
8540	2490	CGGUGAU G UCUAUGGC	13306	GCCAUAAG GCCGAAAGGCGAGUGAGGUCU	AUCAGCCG	31681
8547	2483	UGUCUUG G CACACCCA	13307	UGGGUGUG GCCGAAAGGCGAGUGAGGUCU	CAUAGACA	31682
8556	2474	CACACCA G UGUCAGCG	13308	CGCUGAGA GCCGAAAGGCGAGUGAGGUCU	UGGGUGUG	31683
8558	2472	CACCCAGU G UCAGCGUG	13309	CACGUGA GCCGAAAGGCGAGUGAGGUCU	ACUGGGUG	31684
8562	2468	CAGUGUCA G CGUGCACG	13310	CGUGCACG GCCGAAAGGCGAGUGAGGUCU	UGACACUG	31685
8564	2466	GUGUCAGC G UGCACGUU	13311	AACGUGCA GCCGAAAGGCGAGUGAGGUCU	GCUGACAC	31686
8566	2464	GUCAGCGU G CACGUUCA	13312	UGAACGUG GCCGAAAGGCGAGUGAGGUCU	ACGUGAC	31687
8570	2460	GCGUGCAC G UUCACGGA	13313	UCCGUGAA GCCGAAAGGCGAGUGAGGUCU	GUGCACGC	31688
8587	2443	GAGGAAGA G CAGAACUC	13314	GAGUUCUG GCCGAAAGGCGAGUGAGGUCU	UCUUCUCU	31689
8604	2426	CUCCAACU G CGAGAAAC	13315	GUUUCUG GCCGAAAGGCGAGUGAGGUCU	AGUUGGAG	31690
8613	2417	CGAGAAAC G UGAGAGCU	13316	AGCUCUCA GCCGAAAGGCGAGUGAGGUCU	GUUUCUGG	31691
8619	2411	ACGUGAGA G CUAUGGAC	13317	GUCCAUA GCCGAAAGGCGAGUGAGGUCU	UCUCACGU	31692
8637	2393	UAUCAAGA G CAUUGAUG	13318	CAUCAUAG GCCGAAAGGCGAGUGAGGUCU	UCGUGAUA	31693
8645	2385	GCAUUGAU G CCCAUCCA	13319	UGGAUUGG GCCGAAAGGCGAGUGAGGUCU	AUCAUUGC	31694
8664	2366	ACAGGAGA G CCCCAGC	13320	GCUGGGGG GCCGAAAGGCGAGUGAGGUCU	UCUCUCUG	31695
8671	2359	AGCCCCA G CAUCCUU	13321	AAGGAUUG GCCGAAAGGCGAGUGAGGUCU	UGGGGGCU	31696

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8680	2350	CAAUCCUU G CGUUAUCC	13322	GGAUAAACG GCCGAAAGGCGAGUGAGGUCU AAGGAUUG	31697
8682	2348	AUCCUUGC G UUAUCCAG	13323	CUGGAUAA GCCGAAAGGCGAGUGAGGUCU GCAAGGAU	31698
8696	2334	CAGGACAU G CCUCCGAA	13324	UUCGGAGG GCCGAAAGGCGAGUGAGGUCU AUGUCCUG	31699
8707	2323	UCCGAACA G UGAGCGGA	13325	UCCGCUCA GCCGAAAGGCGAGUGAGGUCU UGUUCCGA	31700
8711	2319	AACAGUGA G CGGAAUCC	13326	GCAUUCUG GCCGAAAGGCGAGUGAGGUCU UCACUGUU	31701
8718	2312	AGCGGAU G CUCCUCCG	13327	CGGAGGAG GCCGAAAGGCGAGUGAGGUCU AUUCCGCU	31702
8742	2288	GAUGGACA G CCUCCCA	13328	UGGGAAGG GCCGAAAGGCGAGUGAGGUCU UGUCCAUC	31703
8757	2273	CAACUGAG G UGAACACC	13329	GGUGUUCA GCCGAAAGGCGAGUGAGGUCU CUCAGUUG	31704
8783	2247	GAUCCAAA G UCCCAAGC	13330	GCUUGGGA GCCGAAAGGCGAGUGAGGUCU UUUGGAUC	31705
8790	2240	AGUCCCAA G CUGUGUCU	13331	AGACACAG GCCGAAAGGCGAGUGAGGUCU UUGGGACU	31706
8793	2237	CCCAAGCU G UGUCUCCU	13332	AGGACAGA GCCGAAAGGCGAGUGAGGUCU AGCUUGGG	31707
8795	2235	CAAGCUGU G UCUCCUAG	13333	CUAGGAGA GCCGAAAGGCGAGUGAGGUCU ACAGCUUG	31708
8805	2225	CUCCUAGA G CGGCUAGU	13334	ACUAGCCG GCCGAAAGGCGAGUGAGGUCU UCUAGGAG	31709
8808	2222	CUAGAGCG G CUAGUCUC	13335	GAGACUAG GCCGAAAGGCGAGUGAGGUCU CGCUUAG	31710
8812	2218	AGCGGCUA G UCUCUGCG	13336	CGCAGAGA GCCGAAAGGCGAGUGAGGUCU UAGCCGCU	31711
8818	2212	UAGUCUCU G CGCUCUUC	13337	AAGGAGCG GCCGAAAGGCGAGUGAGGUCU AGAGACUA	31712
8820	2210	GUCUCUGC G UCCUUGU	13338	CAAAGGAG GCCGAAAGGCGAGUGAGGUCU CGAGAGAC	31713
8832	2198	CUUUGAGG G UGGUUGUA	13339	UACAACCA GCCGAAAGGCGAGUGAGGUCU CCUCAAAG	31714
8835	2195	UGAGGGUG G UUGUAAAG	13340	CUUUACAA GCCGAAAGGCGAGUGAGGUCU CACCCUCA	31715
8838	2192	GGGUGGUU G UAAAGGCU	13341	AGCCUUUA GCCGAAAGGCGAGUGAGGUCU AACCACCC	31716
8844	2186	UUGUAAAG G CUUUGCCA	13342	UGGCAAG GCCGAAAGGCGAGUGAGGUCU CUUUACAA	31717
8849	2181	AAGGCUUU G CCAAUGCU	13343	AGCAUUGG GCCGAAAGGCGAGUGAGGUCU AAAGCCUU	31718
8855	2175	UUGCCAAU G CUGCUUCC	13344	GGAAGCAG GCCGAAAGGCGAGUGAGGUCU AUUGGCAA	31719
8858	2172	CCAAUGCU G CUUCCAGA	13345	UCUGGAAG GCCGAAAGGCGAGUGAGGUCU AGCAUUGG	31720
8870	2160	CCAGACUJ G UGCCAUG	13346	CAUUGGCA GCCGAAAGGCGAGUGAGGUCU AAGUCUGG	31721
8872	2158	AGACUUGU G CCAAUGGU	13347	ACCAUUGG GCCGAAAGGCGAGUGAGGUCU ACAAGUCU	31722
8879	2151	UGCCAAUG G UGAUUGAU	13348	AUCAUUA GCCGAAAGGCGAGUGAGGUCU CAUUGGCA	31723
8890	2140	AUUGAUUC G UUGUUCUC	13349	GAGAACAA GCCGAAAGGCGAGUGAGGUCU AGAUCAAU	31724
8893	2137	GAUCUGUU G UUCUCCUC	13350	GAGGAGAA GCCGAAAGGCGAGUGAGGUCU AACAGAU	31725
8903	2127	UCUCCUCU G CCCACAC	13351	GUGGUGGG GCCGAAAGGCGAGUGAGGUCU GCUAAGGA	31726
8915	2115	ACCACUUA G UAUGAGUC	13352	GACUCAUA GCCGAAAGGCGAGUGAGGUCU AUAGUGGU	31727
8921	2109	AUGUAUGA G UCUCCAA	13353	UUUGGAGA GCCGAAAGGCGAGUGAGGUCU UCAUACAU	31728
8932	2098	UCCAAAGG G UGGUCCA	13354	UGGAACCA GCCGAAAGGCGAGUGAGGUCU CCUUGGA	31729
8935	2095	AAAGGGUG G UUCAAUU	13355	AAUUGGAA GCCGAAAGGCGAGUGAGGUCU CACCCUUU	31730
8958	2072	GGACCUUA G CGUUGGCC	13356	GGCCAACG GCCGAAAGGCGAGUGAGGUCU UAAGGUCC	31731
8960	2070	ACCUUAGC G UUGGCCGU	13357	ACGGCCAA GCCGAAAGGCGAGUGAGGUCU GCUAAGGU	31732
8964	2066	UAGCGUUG G CCGUGGCC	13358	GGCCACGG GCCGAAAGGCGAGUGAGGUCU CAACGCUA	31733
8967	2063	CGUUGGCC G UGGCCACU	13359	AGUGGCCA GCCGAAAGGCGAGUGAGGUCU GGCCAACG	31734
8970	2060	UGGCCGUG G CCACUGAA	13360	UUCAGUGG GCCGAAAGGCGAGUGAGGUCU CACGGCCA	31735
8987	2043	ACAAAAGG G UUGACAGU	13361	ACUGUCAA GCCGAAAGGCGAGUGAGGUCU CCUUUUGU	31736
8994	2036	GGUUGACA G UGACCAAU	13362	AUUGGUCA GCCGAAAGGCGAGUGAGGUCU UGUCAACC	31737
9005	2025	ACCAAUUC G CCCACUGG	13363	CCAGUGGG GCCGAAAGGCGAGUGAGGUCU AGAUUGGU	31738
9013	2017	GCCCACUG G CGUAGGU	13364	ACCUAACG GCCGAAAGGCGAGUGAGGUCU CAGUGGGC	31739
9015	2015	CCACUGGC G UVAGGUCG	13365	CGACCUAA GCCGAAAGGCGAGUGAGGUCU GCCAGUGG	31740
9020	2010	GGCGUUG G UCGUCAA	13366	UUGAACGA GCCGAAAGGCGAGUGAGGUCU CUAACGCC	31741
9023	2007	GUUAGGUC G UUCAUGA	13367	UCAUUGAA GCCGAAAGGCGAGUGAGGUCU GACCUAAC	31742
9033	1997	JCAAUGAA G CCACUGAC	13368	GUCAGUGG GCCGAAAGGCGAGUGAGGUCU UUCAUUGA	31743
9056	1974	GGAAUUAU G CAAGGUCC	13369	GGACCUUG GCCGAAAGGCGAGUGAGGUCU AAAGUUCC	31744
9061	1969	UUUGCAAG G UCCAUCG	13370	CGGAUGGA GCCGAAAGGCGAGUGAGGUCU CUUGCAAA	31745
9069	1961	GUCCAUCG G UGCCAGUG	13371	CACUGGCA GCCGAAAGGCGAGUGAGGUCU GGAUGGAC	31746
9071	1959	CCAUCGUG G CCAGUGUA	13372	UACACUGG GCCGAAAGGCGAGUGAGGUCU ACGGAUGG	31747
9075	1955	CCGUGCCA G UGUACUGC	13373	GCAUUAUA GCCGAAAGGCGAGUGAGGUCU UGGCACGG	31748
9077	1953	GUGCCAGU G UACUGCAA	13374	UUGCAGUA GCCGAAAGGCGAGUGAGGUCU ACUGGCAC	31749
9082	1948	AGUGUACU G CAAUUGCA	13375	UGGAUUUG GCCGAAAGGCGAGUGAGGUCU AGUACACU	31750
9099	1931	ACACCACA G UGCCUGA	13376	UCACGGCA GCCGAAAGGCGAGUGAGGUCU UGUUGUGU	31751
9101	1929	ACCACAGU G CCGUGACC	13377	GGUCACGG GCCGAAAGGCGAGUGAGGUCU ACUGUGGU	31752
9104	1926	ACAGUGCC G UGACUGU	13378	ACAGGUCA GCCGAAAGGCGAGUGAGGUCU GGCACUGU	31753
9111	1919	CGUGACCU G UGUCUGCG	13379	CGCAGACA GCCGAAAGGCGAGUGAGGUCU AGGUCACG	31754
9113	1917	UGACCUUG G UCUGCGGG	13380	CCCAGACA GCCGAAAGGCGAGUGAGGUCU ACAGGUCA	31755
9117	1913	CUGUGUCU G CGGGAGUC	13381	GACUCCCG GCCGAAAGGCGAGUGAGGUCU AGACACAG	31756
9123	1907	CUGCGGGA G UCCCAAGA	13382	UCUUGGGA GCCGAAAGGCGAGUGAGGUCU UCCGCGAG	31757
9141	1889	ACUUGAAA G CCUUGAA	13383	UUCAAAGG GCCGAAAGGCGAGUGAGGUCU UUUAAGU	31758

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9155	1875	GAACAGAC G CCAUAGGU	13384	ACCUAUGG GCCGAAAGGCGAGUGAGGUCU	GUCUGUUC	31759
9162	1868	CGCCAUAG G UUGUCCCC	13385	GGGAACAA GCCGAAAGGCGAGUGAGGUCU	CUAUGGCG	31760
9165	1865	CAUAGGUU G UUCCCUUC	13386	GAAGGGAA GCCGAAAGGCGAGUGAGGUCU	AACCUAUG	31761
9178	1852	CUUCAACU G CAUJUJUU	13387	AAAAAUUG GCCGAAAGGCGAGUGAGGUCU	AGUUGAAG	31762
9219	1811	GACCCGAC G UCAACUUG	13388	CAAGUUGA GCCGAAAGGCGAGUGAGGUCU	GUCGGGUC	31763
9231	1799	ACUUGACA G UGUUGCUU	13389	AAGCAACA GCCGAAAGGCGAGUGAGGUCU	UGUCAAGU	31764
9233	1797	UUGACAGU G UUGCUUGA	13390	UCAAGCAA GCCGAAAGGCGAGUGAGGUCU	ACUGUCAA	31765
9236	1794	ACAGUGUU G CUUGAAAA	13391	UUUUCAAG GCCGAAAGGCGAGUGAGGUCU	AACACUGU	31766
9258	1772	CAGGAUUG G CUCCAGCC	13392	GGCUGGAG GCCGAAAGGCGAGUGAGGUCU	CAUUCGUG	31767
9264	1766	UGGCUCCA G CCAAAGCU	13393	AGCUUUGG GCCGAAAGGCGAGUGAGGUCU	UGGAGCCA	31768
9270	1760	CAGCCAAA G CUUGAUGC	13394	GCAUCAAG GCCGAAAGGCGAGUGAGGUCU	UUUGGCGU	31769
9277	1753	AGCUUGAU G CAGAGCUC	13395	GAGCUCUG GCCGAAAGGCGAGUGAGGUCU	AUCAAGCU	31770
9282	1748	GAUGCAGA G CUCCUCU	13396	AGAGGGAG GCCGAAAGGCGAGUGAGGUCU	UCUGCAUC	31771
9292	1738	UCCUCUUU G UGAGCCCA	13397	UGGGCJCA GCCGAAAGGCGAGUGAGGUCU	AAGAGGGA	31772
9296	1734	UCUUGUGA G CCCAAUGC	13398	GCAUUGGG GCCGAAAGGCGAGUGAGGUCU	UCACAAGA	31773
9303	1727	AGCCCAAU G CUUACACA	13399	UGUGAUAG GCCGAAAGGCGAGUGAGGUCU	AUUGGGCU	31774
9316	1714	CACAGACU G CUUCGUGG	13400	CCACGAAG GCCGAAAGGCGAGUGAGGUCU	AGUCUGUG	31775
9321	1709	ACUGCUUC G UGGCGUGU	13401	ACACGCCA GCCGAAAGGCGAGUGAGGUCU	GAAGCAGU	31776
9324	1706	GCUCGUG G CGUGUGGU	13402	ACCACACG GCCGAAAGGCGAGUGAGGUCU	CACGAAGC	31777
9326	1704	UUCGUGGC G UGUGGUUC	13403	GAACCACA GCCGAAAGGCGAGUGAGGUCU	GCCACGAA	31778
9328	1702	CGUGGCGU G UGGUCCU	13404	AGGAACCA GCCGAAAGGCGAGUGAGGUCU	ACGCCACG	31779
9331	1699	GGCGUGUG G UUCUCAAA	13405	UUGAGGAA GCCGAAAGGCGAGUGAGGUCU	CACACGCC	31780
9351	1679	CCAUAAC G UCUCUCUG	13406	CAGAGAGA GCCGAAAGGCGAGUGAGGUCU	GUUAAUGG	31781
9359	1671	GUCUCUCU G UUCUCCA	13407	UGGAGGAA GCCGAAAGGCGAGUGAGGUCU	AGAGAGAC	31782
9372	1658	UCCACACA G UACUCCA	13408	UGGAAGUA GCCGAAAGGCGAGUGAGGUCU	UGUGUGGA	31783
9381	1649	UACUCCA G CACUGCUC	13409	GAGCAGUG GCCGAAAGGCGAGUGAGGUCU	UGGAAGUA	31784
9386	1644	CCAGCACU G CUCCAAGG	13410	CCUUGGAG GCCGAAAGGCGAGUGAGGUCU	AGUGCUGG	31785
9398	1632	CAAGGAG G UUGAGGUC	13411	GACCUCAA GCCGAAAGGCGAGUGAGGUCU	CUCCCUUG	31786
9404	1626	AGGUUGAG G UCCAUGAA	13412	UUCAUGGA GCCGAAAGGCGAGUGAGGUCU	CUCAACCU	31787
9435	1595	CCAAGAAC G UCUUUGUU	13413	AACAAGAA GCCGAAAGGCGAGUGAGGUCU	GUUCUUGG	31788
9441	1589	ACGUUUU G UUCAACA	13414	UGUUGGAA GCCGAAAGGCGAGUGAGGUCU	AAAGACGU	31789
9450	1580	UUCAACA G UCAUCACG	13415	CGUGAUGA GCCGAAAGGCGAGUGAGGUCU	UGUUGGAA	31790
9458	1572	GUCAUCAC G UAGUAUGC	13416	GCAUACUA GCCGAAAGGCGAGUGAGGUCU	GUGAUGAC	31791
9461	1569	AUCACGUA G UAUGCAUU	13417	AAUGCAUA GCCGAAAGGCGAGUGAGGUCU	UACGUGAU	31792
9465	1565	CGUAGUAU G CAUUGGUG	13418	CACCAUUG GCCGAAAGGCGAGUGAGGUCU	AUACUACG	31793
9471	1559	AUGCAUUG G UGUCAAUC	13419	GAUUGACA GCCGAAAGGCGAGUGAGGUCU	CAAUGCAU	31794
9473	1557	GCAUUGGU G UCAAUCCC	13420	GGAAUGUA GCCGAAAGGCGAGUGAGGUCU	ACCAAUGC	31795
9487	1543	CCCUGACC G UGGUUCAC	13421	GUGAACCA GCCGAAAGGCGAGUGAGGUCU	GGUCAGGG	31796
9490	1540	UGACCGUG G UUCACAGU	13422	ACUGUGAA GCCGAAAGGCGAGUGAGGUCU	CACGUGCA	31797
9497	1533	GGUUCACA G UCCACUGU	13423	ACAGUGGA GCCGAAAGGCGAGUGAGGUCU	UGUGAACC	31798
9504	1526	AGUCCACU G UCACCUCU	13424	AGAGGJGA GCCGAAAGGCGAGUGAGGUCU	AGUGGACU	31799
9526	1504	UUCUCCAA G CUUAGUG	13425	CACUAAAG GCCGAAAGGCGAGUGAGGUCU	UUGGAGAA	31800
9532	1498	AAGCUUUA G UGUGUAUG	13426	CAUACACA GCCGAAAGGCGAGUGAGGUCU	UAAAGCUU	31801
9534	1496	GCUUUAGU G UGUUAUGA	13427	UUCUAACA GCCGAAAGGCGAGUGAGGUCU	ACUAAAGC	31802
9536	1494	UUUAGUGU G UAUGAAGG	13428	CCUUCAUA GCCGAAAGGCGAGUGAGGUCU	ACACUAAA	31803
9544	1486	GUUGAAG G CGCCGACG	13429	CUGCGGCG GCCGAAAGGCGAGUGAGGUCU	CUUCAUAC	31804
9546	1484	AUGAAGGC G CCGCAGGA	13430	UCCUGCGG GCCGAAAGGCGAGUGAGGUCU	GCCUUCAU	31805
9549	1481	AAGGCGCC G CAGGAGUG	13431	CACUCCUG GCCGAAAGGCGAGUGAGGUCU	GGCGCCUU	31806
9555	1475	CCGCAGGA G UGAUGCUG	13432	CAGCAUCA GCCGAAAGGCGAGUGAGGUCU	UCCUGCGG	31807
9560	1470	GGAGUGAU G CUGAAUCU	13433	AGAUAUCAG GCCGAAAGGCGAGUGAGGUCU	AUCACUCC	31808
9573	1457	AUCUCCCU G CCUGAGUG	13434	CACUCAGG GCCGAAAGGCGAGUGAGGUCU	AGGGAGAU	31809
9579	1451	CUGCCUGA G UGGCUCCA	13435	UGGAGCCA GCCGAAAGGCGAGUGAGGUCU	UCAGGCAG	31810
9582	1448	CCUGAGUG G CUCCAACC	13436	GGUUGGAG GCCGAAAGGCGAGUGAGGUCU	CACUCAGG	31811
9592	1438	UCCAACCU G UGUGGAGU	13437	ACUCCACA GCCGAAAGGCGAGUGAGGUCU	AGGUUGGA	31812
9594	1436	CAACCUUG G UGGAGUAG	13438	CUACUCCA GCCGAAAGGCGAGUGAGGUCU	ACAGGUUG	31813
9599	1431	UGUGUGGA G UAGUUUCC	13439	GGAACUA GCCGAAAGGCGAGUGAGGUCU	UCCACACA	31814
9602	1428	GUGGAGUA G UUUCCGUG	13440	CACGAAA GCCGAAAGGCGAGUGAGGUCU	UACUCCAC	31815
9608	1422	UAGUUUCC G UGCGACUC	13441	GAGUCGCA GCCGAAAGGCGAGUGAGGUCU	GGAAACUA	31816
9610	1420	GUUUCGUG G CGACUCCA	13442	UGGAGUCG GCCGAAAGGCGAGUGAGGUCU	ACGGAAC	31817
9621	1409	ACUCCACA G UAGUUGGU	13443	ACCAACUA GCCGAAAGGCGAGUGAGGUCU	UGUGGAGU	31818
9624	1406	CCACAGUA G UUGGUCCA	13444	UGGACCAA GCCGAAAGGCGAGUGAGGUCU	UACUGUGG	31819
9628	1402	AGUAGUUG G UCCAUGGA	13445	UCCAUGGA GCCGAAAGGCGAGUGAGGUCU	CAACUACU	31820

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9645	1385	CAAAAUG G CCACUUCG	13446	CGAAGUGG GCCGAAAGGCGAGUGAGGUCU	CAUUUUUG	31821
9653	1377	GCCACUUC G UACUUGAU	13447	AUCAAGUA GCCGAAAGGCGAGUGAGGUCU	GAAGUGGC	31822
9678	1352	UCAAGAUG G UUCUUCU	13448	AGGAAGAA GCCGAAAGGCGAGUGAGGUCU	CAUCUUGA	31823
9690	1340	UUCCUAUU G CCUUGGUA	13449	UACCAAGG GCCGAAAGGCGAGUGAGGUCU	AAUAGGAA	31824
9696	1334	UUGCCUUG G UAGAGCAG	13450	CUGCUCUA GCCGAAAGGCGAGUGAGGUCU	CAAGGCAA	31825
9701	1329	UUGGUAGA G CAGGCAA	13451	UUUGCCUG GCCGAAAGGCGAGUGAGGUCU	UCUACCAA	31826
9705	1325	UAGAGCAG G CAAAUUUG	13452	CAAAUUGG GCCGAAAGGCGAGUGAGGUCU	CUGCUCUA	31827
9714	1316	CAAAUUGG G CGCAUGUG	13453	CACAUGCG GCCGAAAGGCGAGUGAGGUCU	CAAAUUGG	31828
9716	1314	AAUUUGGC G CAUGUGUC	13454	GACACAUG GCCGAAAGGCGAGUGAGGUCU	GCCAAAUU	31829
9720	1310	UGGCGCAU G UGUCAAUG	13455	CAUUGACA GCCGAAAGGCGAGUGAGGUCU	AACGGCCA	31830
9722	1308	GCGCAUGU G UCAAUGCU	13456	AGCAUUGA GCCGAAAGGCGAGUGAGGUCU	ACAUGCGC	31831
9728	1302	GUGUCAAU G CUUCCUUU	13457	AAAGGAAG GCCGAAAGGCGAGUGAGGUCU	AUUGACAC	31832
9737	1293	CUUCCUUU G CCAAUAA	13458	UUUUUUGG GCCGAAAGGCGAGUGAGGUCU	AAAGGAAG	31833
9749	1281	AAUAUCC G CAGCCGUU	13459	AACGGCUG GCCGAAAGGCGAGUGAGGUCU	GAUUAU	31834
9752	1278	AAUCCGCA G CCGUUGCC	13460	GGCAACGG GCCGAAAGGCGAGUGAGGUCU	UGCGGAUU	31835
9755	1275	CCGACGCC G UUGCCCA	13461	UUGGGCAA GCCGAAAGGCGAGUGAGGUCU	GGCUGCGG	31836
9758	1272	CAGCCGUU G CCCCAGCC	13462	GGCUGGGG GCCGAAAGGCGAGUGAGGUCU	AACGGCUG	31837
9764	1266	UUGCCCCA G CCCCUGUC	13463	GACAGGGG GCCGAAAGGCGAGUGAGGUCU	UGGGGCAA	31838
9770	1260	CAGCCCUU G UCCACCAC	13464	GUGUGGGA GCCGAAAGGCGAGUGAGGUCU	AGGGGCTUG	31839
9784	1246	CACUCCUU G UCUGACA	13465	UGUGCAGA GCCGAAAGGCGAGUGAGGUCU	AAGGAGUG	31840
9788	1242	CCUUGUCU G CACACAAA	13466	UUUGUGUG GCCGAAAGGCGAGUGAGGUCU	AGACAAGG	31841
9798	1232	ACACAAA G CUGGGUCA	13467	UGACCCAG GCCGAAAGGCGAGUGAGGUCU	UUUUGUGU	31842
9803	1227	AAAGCUGG G UCAGCACG	13468	CGUGCUGA GCCGAAAGGCGAGUGAGGUCU	CCAGCUUU	31843
9807	1223	CUGGGUCA G CACGUUUG	13469	CAAACGUG GCCGAAAGGCGAGUGAGGUCU	UGACCCAG	31844
9811	1219	GUCAGCAC G UUUGUCAU	13470	AUGACAAA GCCGAAAGGCGAGUGAGGUCU	GUGCUGAC	31845
9815	1215	GCACGUUU G UCAUUGUG	13471	CACAAUGA GCCGAAAGGCGAGUGAGGUCU	AAACGUGC	31846
9821	1209	UUUGUCAU G UGAGCUUC	13472	GAAGCUCA GCCGAAAGGCGAGUGAGGUCU	AAUGACAA	31847
9825	1205	CAUUGUGA G CUUCUCCC	13473	GUGGAGAG GCCGAAAGGCGAGUGAGGUCU	UCACAAUG	31848
9837	1193	CUCCCAUG G UCGGGCAC	13474	GUGCCAGA GCCGAAAGGCGAGUGAGGUCU	CAUGGGAG	31849
9842	1188	AUGGUCGG G CACGCAGC	13475	GCUGCGUG GCCGAAAGGCGAGUGAGGUCU	CCGACCAU	31850
9846	1184	UCGGGCAC G CAGCUUUG	13476	CAAAGCUG GCCGAAAGGCGAGUGAGGUCU	GUGCCCGA	31851
9849	1181	GGCACGCA G CUUUGGUG	13477	CACCAAAG GCCGAAAGGCGAGUGAGGUCU	UGCGUGCC	31852
9855	1175	CAGCUUUG G UGGAGAGA	13478	UCUCUCCA GCCGAAAGGCGAGUGAGGUCU	CAAAGCUG	31853
9866	1164	GAGAGAUC G CUGACGGU	13479	ACCUGACG GCCGAAAGGCGAGUGAGGUCU	GAUCUCUC	31854
9873	1157	CGCUGACG G UAGCCAAA	13480	UUUGGCUA GCCGAAAGGCGAGUGAGGUCU	CGUCACGG	31855
9876	1154	UGACGGUA G CCAAUAAG	13481	CUAUUUGG GCCGAAAGGCGAGUGAGGUCU	UACCGUCA	31856
9884	1146	GCCAAUA G CAAUAACU	13482	AGUUAUUG GCCGAAAGGCGAGUGAGGUCU	UAUUUGGC	31857
9893	1137	CAUAACU G CGGACCUC	13483	GAGGUCCG GCCGAAAGGCGAGUGAGGUCU	AGUUAUUG	31858
9903	1127	GGACCUCU G CCAGGUUG	13484	CAACCUGG GCCGAAAGGCGAGUGAGGUCU	AGAGGUCC	31859
9908	1122	UCUGCCAG G UUGACCGC	13485	GCGGUCAA GCCGAAAGGCGAGUGAGGUCU	CUGGCAGA	31860
9915	1115	GGUUGACC G CCUCCAUA	13486	UAUGGAGG GCCGAAAGGCGAGUGAGGUCU	GGUCAACC	31861
9945	1085	CAUCGAUG G UAGGCUUG	13487	CAAGCCUA GCCGAAAGGCGAGUGAGGUCU	CUACGAUG	31862
9949	1081	GAUGGUAG G CUUGUCCU	13488	AGGACAAG GCCGAAAGGCGAGUGAGGUCU	CUACCAUC	31863
9953	1077	GUAGGCUU G UCCUAGA	13489	UCUAAGGA GCCGAAAGGCGAGUGAGGUCU	AAGCCUAC	31864
9969	1061	ACAUGAUA G UCACGAG	13490	CUGCGUGA GCCGAAAGGCGAGUGAGGUCU	UAUCAUGU	31865
9974	1056	AUAGUCAC G CAGCUGUC	13491	GACAGCUG GCCGAAAGGCGAGUGAGGUCU	GUGACUAU	31866
9977	1053	GUCACGCA G CUGUCGCC	13492	GGCGACAG GCCGAAAGGCGAGUGAGGUCU	UGCGUGAC	31867
9980	1050	ACGCAGCU G UCGCCUUC	13493	GAAGGCCA GCCGAAAGGCGAGUGAGGUCU	AGCUGCGU	31868
9983	1047	CAGCUGUC G CCUUCGAG	13494	CUCGAAGG GCCGAAAGGCGAGUGAGGUCU	GACAGCUG	31869
10008	1022	CCACCCAU G UUGCUCCA	13495	UGGAGCAA GCCGAAAGGCGAGUGAGGUCU	AUGGGUGG	31870
10011	1019	CCCAUGUU G CUCCAGAC	13496	GUCUGGAG GCCGAAAGGCGAGUGAGGUCU	AACAUGGG	31871
10034	996	UCCAAGAA G UCUCUGUU	13497	AACAGAGA GCCGAAAGGCGAGUGAGGUCU	UUUUUGGA	31872
10040	990	AAGUCUCU G UUGCUCAU	13498	AUGAGCAA GCCGAAAGGCGAGUGAGGUCU	AGAGACUU	31873
10043	987	UCUCUGUU G CUCAUUC	13499	GGAAUGAG GCCGAAAGGCGAGUGAGGUCU	AACAGAGA	31874
10055	975	AUUCCAAG G CAGUUGAA	13500	UUCAACUG GCCGAAAGGCGAGUGAGGUCU	CUUGGAAU	31875
10058	972	CCAAGGCA G UUGAAGCU	13501	AGCUUCAA GCCGAAAGGCGAGUGAGGUCU	UGCCUUGG	31876
10064	966	CAGUUGAA G CUGUAAGC	13502	GCUUACAG GCCGAAAGGCGAGUGAGGUCU	UUCAACUG	31877
10067	963	UUGAAGCU G UAAGCUGG	13503	CCAGCUUA GCCGAAAGGCGAGUGAGGUCU	AGCUUCAA	31878
10071	959	AGCUGUAA G CUGGGGCC	13504	GGCCCCAG GCCGAAAGGCGAGUGAGGUCU	UUACAGCU	31879
10077	953	AAGCUGGG G CCACCAA	13505	UUUGGUGG GCCGAAAGGCGAGUGAGGUCU	CCCAGCUU	31880
10087	943	CACCAAAA G CAAUAGCA	13506	UGCUAUUG GCCGAAAGGCGAGUGAGGUCU	UUUUGGUG	31881
10093	937	AAGCAAUA G CACGACAA	13507	UUGUCGUG GCCGAAAGGCGAGUGAGGUCU	UAUUUGCU	31882

Table X

10114	916	AACUCUCU G CAUGGUGU	13508	ACACCAUG GCCGAAAGGCGAGUGAGGUCU	AGAGAGUU	31883
10119	911	UCUGCAUG G UGUUGCUC	13509	GAGCAACA GCCGAAAGGCGAGUGAGGUCU	CAUGCAGA	31884
10121	909	UGCAUGGU G UUGUCUCC	13510	GGGAGCAA GCCGAAAGGCGAGUGAGGUCU	ACCAUGCA	31885
10124	906	AUGGUGUU G CUCCCAAG	13511	CUUGGGAG GCCGAAAGGCGAGUGAGGUCU	AACACCAU	31886
10132	898	GCUCCCAA G CAUCCAAC	13512	GUUGGAUG GCCGAAAGGCGAGUGAGGUCU	UUGGGAGC	31887
10149	881	CAAUGACG G CUGCCACC	13513	GGUGGCAG GCCGAAAGGCGAGUGAGGUCU	CGUCAUUG	31888
10152	878	UGACGGCU G CCACCAGG	13514	CCUGGUGG GCCGAAAGGCGAGUGAGGUCU	AGCCGUCA	31889
10161	869	CCACCAGG G CAUAUCCA	13515	UGGAUAUG GCCGAAAGGCGAGUGAGGUCU	CCUGGUGG	31890
10172	858	UAUCCAGG G UUCUCA	13516	UUGAGGAA GCCGAAAGGCGAGUGAGGUCU	CCUGGAUA	31891
10194	836	AUGAUUCU G UUUUACC	13517	GGUAAAAA GCCGAAAGGCGAGUGAGGUCU	AGAAUCAU	31892
10212	818	AAUACCUU G UGGCCUUG	13518	CAAGGCUA GCCGAAAGGCGAGUGAGGUCU	CAGUAUJU	31893
10215	815	ACCUUGUG G CCUUGGUG	13519	CACCAAGG GCCGAAAGGCGAGUGAGGUCU	CACAAGGU	31894
10221	809	UGGCCUUG G UGCUGUCC	13520	GGACAGCA GCCGAAAGGCGAGUGAGGUCU	CAAGGCCA	31895
10223	807	GCCUUGGU G CUGUCCAU	13521	AUGGACAG GCCGAAAGGCGAGUGAGGUCU	ACCAAGGC	31896
10226	804	UUGGUGCU G UCCAUCCA	13522	UGGAUGGA GCCGAAAGGCGAGUGAGGUCU	AGCACCAA	31897
10236	794	CCAUCCAA G CCCCUCU	13523	GAAGGGGG GCCGAAAGGCGAGUGAGGUCU	UUGGAUGG	31898
10247	783	CCUUCUUU G UUCGCUAG	13524	CUAGCGAA GCCGAAAGGCGAGUGAGGUCU	AAGAAGGG	31899
10251	779	UCUUGUUC G CUAGAGUG	13525	CACUCUAG GCCGAAAGGCGAGUGAGGUCU	GAACAAGA	31900
10257	773	UCGCUAGA G UGCUUUCU	13526	AGAAAGCA GCCGAAAGGCGAGUGAGGUCU	UCUAGCGA	31901
10259	771	GCUAGAGU G CUUUCUCC	13527	GGAGAAAG GCCGAAAGGCGAGUGAGGUCU	ACUCUAGC	31902
10268	762	CUUUCUCC G UGUGUCUG	13528	CAGACACA GCCGAAAGGCGAGUGAGGUCU	GGAGAAAG	31903
10270	760	UUCUCCGU G UGUCUGCA	13529	UGCAGACA GCCGAAAGGCGAGUGAGGUCU	ACGGAGAA	31904
10272	758	CUCCGUGU G UCUGCACU	13530	AGUGCAGA GCCGAAAGGCGAGUGAGGUCU	ACACGGAG	31905
10276	754	GUGUGUCU G CACUGUCA	13531	UGACAGUG GCCGAAAGGCGAGUGAGGUCU	AGACACAC	31906
10281	749	UCUGCACU G UCAGUGAC	13532	GUCACUGA GCCGAAAGGCGAGUGAGGUCU	AGUGCAGA	31907
10285	745	CACUGUCA G UGACCUCC	13533	GGAGGUGA GCCGAAAGGCGAGUGAGGUCU	UGACAGUG	31908
10298	732	CUCCGACU G CGUCUUGA	13534	UCAAGACG GCCGAAAGGCGAGUGAGGUCU	AGUCGGAG	31909
10300	730	CCGACUGC G UCUGAGU	13535	ACUCAAGA GCCGAAAGGCGAGUGAGGUCU	GCAGUCGG	31910
10307	723	CGUCUUGA G UGGCGUGU	13536	ACACGCCA GCCGAAAGGCGAGUGAGGUCU	UCAAGACG	31911
10310	720	CUUGAGUG G CGUGUCUU	13537	AAGACACG GCCGAAAGGCGAGUGAGGUCU	CACUCAAG	31912
10312	718	UGAGUGGC G UGUCUUGG	13538	CCAAGACA GCCGAAAGGCGAGUGAGGUCU	GCCACUCA	31913
10314	716	AGUGGCGU G UCUUGGUG	13539	CACCAAGA GCCGAAAGGCGAGUGAGGUCU	ACGCCACU	31914
10320	710	GUGUCUUG G UGCAUCUU	13540	AAGAUGCA GCCGAAAGGCGAGUGAGGUCU	CAAGACAC	31915
10322	708	GUCUUGGU G CAUCUUC	13541	GGAAGAUG GCCGAAAGGCGAGUGAGGUCU	ACCAAGAC	31916
10340	690	UACCUGAC G UAGACUGC	13542	GCAGUCUA GCCGAAAGGCGAGUGAGGUCU	GUCAGGUA	31917
10347	683	CGUAGACU G CUGACUUU	13543	AAAGUCAG GCCGAAAGGCGAGUGAGGUCU	AGUCUACG	31918
10356	674	CUGACUUU G UGCACCAA	13544	UUGGUGCA GCCGAAAGGCGAGUGAGGUCU	AAAGUCAG	31919
10358	672	GACUUGU G CACCAACA	13545	UGUUGGUG GCCGAAAGGCGAGUGAGGUCU	ACAAAGUC	31920
10367	663	CACCAACA G UCGAUGUC	13546	GACAUCGA GCCGAAAGGCGAGUGAGGUCU	UGUUGGUG	31921
10373	657	CAGUCGAU G UCUUCUGG	13547	CCAGAAGA GCCGAAAGGCGAGUGAGGUCU	AUCGACUG	31922
10392	638	CAUUAACA G CCGACAGC	13548	GCUGUCGG GCCGAAAGGCGAGUGAGGUCU	UGGUAUUG	31923
10399	631	AGCCGACA G CACUGGGC	13549	GCCGAGUG GCCGAAAGGCGAGUGAGGUCU	UGUCGGCU	31924
10406	624	AGCACUGG G CAUUCAUA	13550	UAUGAAUG GCCGAAAGGCGAGUGAGGUCU	CCAGUGCU	31925
10416	614	AUUCAUAA G UGAUAGUA	13551	UACUAUCA GCCGAAAGGCGAGUGAGGUCU	UUAUGAAU	31926
10422	608	AAGUGAUA G UAUCAUCG	13552	CGAUGAUA GCCGAAAGGCGAGUGAGGUCU	UAUCACUJ	31927
10430	600	GUAUCAUC G CACAUGUA	13553	UACAUGUG GCCGAAAGGCGAGUGAGGUCU	GAUGAUAC	31928
10436	594	UCGCACAU G UAUCCAC	13554	GUGGGAUA GCCGAAAGGCGAGUGAGGUCU	AUGUGCAG	31929
10452	578	CAUCCAUI G CUCUGACA	13555	UGUCAGAG GCCGAAAGGCGAGUGAGGUCU	AAUGGAUG	31930
10463	567	CUGACAAU G CAUAGGUU	13556	AACCUAUG GCCGAAAGGCGAGUGAGGUCU	AUUGUCAG	31931
10469	561	AUGCAUAG G UUCUUC	13557	GGAAAGAA GCCGAAAGGCGAGUGAGGUCU	CUAUGCAU	31932
10479	551	UCUUUCCA G CAGCUGUU	13558	AACAGCUG GCCGAAAGGCGAGUGAGGUCU	UGGAAAGA	31933
10482	548	UUCACGCA G CUGUUGGA	13559	UCCAACAG GCCGAAAGGCGAGUGAGGUCU	UGCUGGAA	31934
10485	545	CAGCAGCU G UUGGAAUC	13560	GAUUCCAA GCCGAAAGGCGAGUGAGGUCU	AGCUGCUG	31935
10494	536	UUGGAAUC G UGAUGACA	13561	UGUCAUCA GCCGAAAGGCGAGUGAGGUCU	GAUUCCAA	31936
10506	524	UGACAUCU G UGACGUCA	13562	UGACGUCA GCCGAAAGGCGAGUGAGGUCU	AGAUGUCA	31937
10511	519	UCUGUGAC G UCAGUAGC	13563	GCUACUGA GCCGAAAGGCGAGUGAGGUCU	GUCACAGA	31938
10515	515	UGACGUCA G UAGCAUUU	13564	AAUUGCUA GCCGAAAGGCGAGUGAGGUCU	UGACGUCA	31939
10518	512	CGUCAGUA G CAUUUACC	13565	GGUAAAUG GCCGAAAGGCGAGUGAGGUCU	UACUGACG	31940
10527	503	CAUUUACC G UCAUCAUC	13566	GAUGAUGA GCCGAAAGGCGAGUGAGGUCU	GGUAAAUG	31941
10550	480	CCUUGGAA G UUAGAGAG	13567	CUCUCTAA GCCGAAAGGCGAGUGAGGUCU	UUCCAAGG	31942
10560	470	UAGAGAGG G UACUGCU	13568	AGCAGUUA GCCGAAAGGCGAGUGAGGUCU	CCUCUCTA	31943
10566	464	GGGUAACU G CUCCUACG	13569	CGUAGGAG GCCGAAAGGCGAGUGAGGUCU	AGUUACCC	31944

Table X

10574	456	GCUCCUAC G CUGGCGAU	13570	AUCGCCAG GCCGAAAGGCGAGUGAGGUCU	GUAGGAGC	31945
10578	452	CUACGCUG G CGAUCAGG	13571	CTUGAUUCG GCCGAAAGGCGAGUGAGGUCU	CAGCGUAG	31946
10586	444	GCGAUCAG G CCAAUCAU	13572	AUGAUUGG GCCGAAAGGCGAGUGAGGUCU	CUGAUCGC	31947
10599	431	UCAUGACU G CAAUUCG	13573	CGGAUUG GCCGAAAGGCGAGUGAGGUCU	AGUCAUGA	31948
10608	422	CAAUCCG G UCUUUCU	13574	AGGAAAGA GCCGAAAGGCGAGUGAGGUCU	CGGAUUG	31949
10630	400	UUUCUUU G UUUGAGC	13575	GCUCAAA GCCGAAAGGCGAGUGAGGUCU	AAAAGAAA	31950
10637	393	UGUUUGA G CUCCGCCG	13576	CGGCGAG GCCGAAAGGCGAGUGAGGUCU	UCAAAACA	31951
10642	388	UGAGCUCC G CCGAUUGA	13577	UCAAUCCG GCCGAAAGGCGAGUGAGGUCU	GGAGCUCA	31952
10653	377	GAUUGAU G CACUGGUC	13578	GACCAGUG GCCGAAAGGCGAGUGAGGUCU	UAUCAUUC	31953
10659	371	UAGCACUG G UCAAGGUC	13579	GACCUUGA GCCGAAAGGCGAGUGAGGUCU	CAGUGCUA	31954
10665	365	UGGUCAAG G UCCCUAGU	13580	ACUAGGGA GCCGAAAGGCGAGUGAGGUCU	CUUGACCA	31955
10672	358	GGUCCUA G UUCCUUCU	13581	AGAAGGAA GCCGAAAGGCGAGUGAGGUCU	UAGGGACC	31956
10694	336	CUCAGAAG G UGUUUCAU	13582	AUGAAACA GCCGAAAGGCGAGUGAGGUCU	CUUCUGAG	31957
10696	334	CAGAAGGU G UUUCAUCG	13583	CGAUGAAA GCCGAAAGGCGAGUGAGGUCU	ACCUUCUG	31958
10704	326	GUUUCAU G CUGUUUGU	13584	ACAAACAG GCCGAAAGGCGAGUGAGGUCU	GAUGAAAC	31959
10707	323	UAGUCGU G UUUGUUG	13585	CAAAACAA GCCGAAAGGCGAGUGAGGUCU	AGCGAUGA	31960
10711	319	CGCUGUU G UUUGUUA	13586	UCAACAAA GCCGAAAGGCGAGUGAGGUCU	AAACAGCG	31961
10715	315	GUUUGUU G UUCACACC	13587	GGUGUGAA GCCGAAAGGCGAGUGAGGUCU	AAACAAAC	31962
10738	292	UCGAUCCA G CACUGCUC	13588	GAGCAGUG GCCGAAAGGCGAGUGAGGUCU	UGGAUCCA	31963
10743	287	CCAGCACU G CUCGGGUC	13589	GACCCGAG GCCGAAAGGCGAGUGAGGUCU	AGUGCUGG	31964
10749	281	CUGCUCG G UCGGAGCA	13590	UGCUCGGA GCCGAAAGGCGAGUGAGGUCU	CCGAGCAG	31965
10755	275	GGGUCGA G CAAUUGCU	13591	AGCAAUUG GCCGAAAGGCGAGUGAGGUCU	UCCGACCC	31966
10761	269	GAGCAAU G CUGUGAAC	13592	GUUCAAG GCCGAAAGGCGAGUGAGGUCU	AAUUGCUC	31967
10764	266	CAAUUGCU G UGAACCUG	13593	CAGGUUCA GCCGAAAGGCGAGUGAGGUCU	AGCAAUUG	31968
10779	251	UGAAGAAC G CCAAGAGA	13594	UCUCUUG GCCGAAAGGCGAGUGAGGUCU	GUUCUUA	31969
10788	242	CCAAGAGA G CCAACACA	13595	UGUGUUG GCCGAAAGGCGAGUGAGGUCU	UCUCUUG	31970
10801	229	CACAAUUC G UAUUGGCC	13596	GGCCAAUA GCCGAAAGGCGAGUGAGGUCU	GAUUGUG	31971
10807	223	UCGUUUU G CCCUUGC	13597	GCAAGGG GCCGAAAGGCGAGUGAGGUCU	CAAUACGA	31972
10814	216	GGCCCUU G CGUUCGAU	13598	AUCGACGG GCCGAAAGGCGAGUGAGGUCU	CAGUGGCC	31973
10817	213	CCCUUGC G UCGAUCAG	13599	CUGAUCCA GCCGAAAGGCGAGUGAGGUCU	GGCAAGGG	31974
10826	204	UCCGAUCAG G CUCAACAU	13600	AUGUUGAG GCCGAAAGGCGAGUGAGGUCU	CUGAUCCA	31975
10836	194	UCAACAU G CCUCUUC	13601	GAAGAGGG GCCGAAAGGCGAGUGAGGUCU	UAUGUUGA	31976
10846	184	CCUCUUA G UCCAAUCA	13602	UGAUUGGA GCCGAAAGGCGAGUGAGGUCU	UGAAGAGG	31977
10865	165	GACAAAC G CGGGGCAU	13603	AUGCCCCG GCCGAAAGGCGAGUGAGGUCU	GUGUUGUC	31978
10870	160	CACGCGGG G CAUUCGCG	13604	CGGGAUUG GCCGAAAGGCGAGUGAGGUCU	CCCGGUG	31979
10877	153	GGCAUUC G CGUUUAG	13605	CUAAAACG GCCGAAAGGCGAGUGAGGUCU	GGAUUGCC	31980
10879	151	CAUUCGCG G UUUUAGCA	13606	UGCUAUAA GCCGAAAGGCGAGUGAGGUCU	GCGGAUUG	31981
10885	145	GCGUUUA G CAUAUUGA	13607	UCAUAUUG GCCGAAAGGCGAGUGAGGUCU	UAAAACGC	31982
10896	134	UAUUGACA G CCCGGCUC	13608	GAGCCGGG GCCGAAAGGCGAGUGAGGUCU	UGUCAUUA	31983
10901	129	ACAGCCCG G CUCUUGCC	13609	GGCAAGAG GCCGAAAGGCGAGUGAGGUCU	CGGGCUGU	31984
10907	123	CGGCUCU G CCGGGCCC	13610	GGGCCCG GCCGAAAGGCGAGUGAGGUCU	AAGAGCCG	31985
10912	118	CUUGCCGG G CCCUCCUG	13611	CAGGAGGG GCCGAAAGGCGAGUGAGGUCU	CCGCAAG	31986
10921	109	CCCUCCUG G UUUCUUG	13612	CUAAGAAA GCCGAAAGGCGAGUGAGGUCU	CAGGAGGG	31987
10944	86	AGAUCUUC G UGCUAAGA	13613	UCUUAGCA GCCGAAAGGCGAGUGAGGUCU	GAAGAUUC	31988
10946	84	AUCUCGU G CUAAGAAA	13614	UUUCUUG GCCGAAAGGCGAGUGAGGUCU	ACGAAGAU	31989
10957	73	AAGAAACA G CUCGCACU	13615	AGUGCGAG GCCGAAAGGCGAGUGAGGUCU	UGUUUCU	31990
10961	69	AACAGCUC G CACUGUGU	13616	ACACAGUG GCCGAAAGGCGAGUGAGGUCU	GAGCUGUU	31991
10966	64	CUCGCACU G UGUUAAU	13617	AAUUAACA GCCGAAAGGCGAGUGAGGUCU	AGUGCGAG	31992
10968	62	CGCACUGU G UUAUUUGU	13618	ACAAUUA GCCGAAAGGCGAGUGAGGUCU	ACAGUGCG	31993
10975	55	UGUUAUU G UUGUUAU	13619	AUUAACA GCCGAAAGGCGAGUGAGGUCU	AAUUAACA	31994
10978	52	UAAUUGUU G UUAUCCU	13620	AGGAUUA GCCGAAAGGCGAGUGAGGUCU	AACAUAUA	31995
11002	28	ACUACUAA G UUUGUCAG	13621	CUGACAAA GCCGAAAGGCGAGUGAGGUCU	UUAGUAGU	31996
11006	24	CUAAGUUU G UCAGCUCA	13622	UCAGCUGA GCCGAAAGGCGAGUGAGGUCU	AAACUUG	31997
11010	20	GUUUGUA G CUCACACA	13623	UGUGUGAG GCCGAAAGGCGAGUGAGGUCU	UGACAAAC	31998
11020	10	UCACACAG G CGAACUAC	13624	GUAGUUCG GCCGAAAGGCGAGUGAGGUCU	CUGUGUGA	31999

Input Sequence = AF196835\_rc. Cut Site = G/Y

Arm Length = 8. Core Sequence = GCCGAAAGGCGAGUCAAGGUCU

AF196835\_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table XI: WNV minus strand DNzyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	DNzyme Sequence	Seq ID
88	10942	CCUAGUCU A UCCCAGGU	7383	ACCTGGGA GGCTAGCTACAACGA AGACTAGG	32000
103	10927	GUGUCAAU A UGCUGUUU	7386	AAACAGCA GGCTAGCTACAACGA ATTGACAC	32001
169	10861	CCUGACCU A CAGCUUCA	7402	TGAAGCTG GGCTAGCTACAACGA AGGTCAGG	32002
253	10777	ACACCAUU A CCGGGGCU	7422	AGCCCCGG GGCTAGCTACAACGA AATGGTGT	32003
316	10714	GGGGCACU A UCGCAGAC	7433	GTCTGCGA GGCTAGCTACAACGA AGTGCCCC	32004
381	10649	UUGAAGUU A CAACAUGU	7444	ACATGTTG GGCTAGCTACAACGA AACTTCAA	32005
423	10607	GAGGGCUU A CAUGGAUC	7452	GATCCATG GGCTAGCTACAACGA AAGCCCTC	32006
489	10541	CACCGUCU A CUCAACUU	7465	AAGTTGAG GGCTAGCTACAACGA AGACGGTG	32007
549	10481	UCUUAACU A UUUACACU	7482	AGTGTAAG GGCTAGCTACAACGA AGTTAAGA	32008
553	10477	AACUAUUU A CACUAACA	7485	TGTTAGTG GGCTAGCTACAACGA AAATAGTT	32009
571	10459	CACUAAAU A CUACUAUA	7488	TATAGTAG GGCTAGCTACAACGA ATTTAGTG	32010
574	10456	UAAUACU A CUUAAAAA	7489	TTTATAG GGCTAGCTACAACGA AGTATTTA	32011
577	10453	AUACUACU A UAAAAAUA	7490	TAGTTTAA GGCTAGCTACAACGA AGTAGTAT	32012
585	10445	AUAAAAAU A CACUUUUA	7492	TAAAGTGG GGCTAGCTACAACGA AGTTTATG	32013
593	10437	ACACUUUU A UGCAUACU	7496	AGTATGCA GGCTAGCTACAACGA AAAAGTGT	32014
599	10431	UUAUGCAU A CUUUAUUU	7497	AATATAAG GGCTAGCTACAACGA AAGCATAA	32015
603	10427	GCAUACUU A UAUUGUCU	7499	AGACAATA GGCTAGCTACAACGA AAGTATGC	32016
605	10425	AUACUUAU A UUGUCUAU	7500	ATAGACAA GGCTAGCTACAACGA ATAAGTAT	32017
612	10418	UAUUGUCU A UUUACAAU	7503	ATTGTAAA GGCTAGCTACAACGA AGACAATA	32018
616	10414	GUCUAUUU A CAAUUGAU	7506	ATCAATTG GGCTAGCTACAACGA AAATAGAC	32019
630	10400	GAUUAUUU A UCUCAGU	7510	ACTGTAGA GGCTAGCTACAACGA ATTTAATC	32020
634	10396	AAAUUUCU A CAGUACUG	7512	CAGTACTG GGCTAGCTACAACGA AGATATTT	32021
639	10391	UCUACAGU A CUGUGUCC	7513	GGACACAG GGCTAGCTACAACGA ACTGTAGA	32022
670	10360	GUCUUCU A UCUCUUUA	7520	TAAAGAGA GGCTAGCTACAACGA ATGAAGAC	32023
700	10330	AUCCACAU A CUUCUCAU	7529	ATGAGAAG GGCTAGCTACAACGA ATGTGGAT	32024
823	10207	UCCUGAAU A UGGGACGU	7555	ACGTCCCA GGCTAGCTACAACGA ATTCAGGA	32025
882	10148	UCUCCUCU A UCCAAACA	7575	TGTTTGGA GGCTAGCTACAACGA AGAGGAGA	32026
1039	9991	GUGGAAGU A CAGAAGCA	7600	TGCTTCTG GGCTAGCTACAACGA ACTTCCAC	32027
1116	9914	CUGGAGAU A UGCGAGCU	7609	AGCTCGCA GGCTAGCTACAACGA ATCTCCAG	32028
1131	9899	CUCUGCCU A CCAAUUCA	7611	TGAATTGG GGCTAGCTACAACGA AGGCAGAG	32029
1234	9796	CCAAUCAU A CCAUCCAG	7631	CTGGATGG GGCTAGCTACAACGA ATGATTGG	32030
1335	9695	GGGGCUUU A CCACACAG	7650	CTGTGTGG GGCTAGCTACAACGA AAAGCCCC	32031
2145	8885	CCUUCUUU A UGAAUUC	7816	GGAAATCA GGCTAGCTACAACGA AAGAAAGG	32032
2230	8800	GAGCACGU A CUUCACUC	7833	GAGTGAAG GGCTAGCTACAACGA ACGTGCTC	32033
2444	8586	CAGGUUCU A UAUGGGUG	7872	CACCCATA GGCTAGCTACAACGA AGAACCTG	32034
2446	8584	GGUUCUAU A UGGGUGGU	7873	ACCACCCA GGCTAGCTACAACGA ATAGAACC	32035
2482	8548	CGAACUGU A CUCACGCC	7879	GGCGTGAG GGCTAGCTACAACGA ACAGTTCC	32036
2519	8511	UUGAUUUU A CUGGUGUC	7891	GACACCAG GGCTAGCTACAACGA AAAATCAA	32037
2577	8453	CCAAGUUU A CAUCUUC	7904	GGAAGATG GGCTAGCTACAACGA AAATTGG	32038
2590	8440	UUCUUCU A UUGGGGUC	7909	GACCCCAA GGCTAGCTACAACGA ACGAGGAA	32039
2648	8382	CUGGUCAU A UUCACUGA	7927	TCAGTGAA GGCTAGCTACAACGA ATGACCAG	32040
2661	8369	CUGAAUGU A CCACAUUG	7930	CAATGTGG GGCTAGCTACAACGA ACATTTCAG	32041
2692	8338	CACCCAAU A CAUCUCGU	7934	ACGAGATG GGCTAGCTACAACGA ATTGGGTG	32042
2746	8284	CCCCCAU A CCGGCGUU	7943	AACGCCGG GGCTAGCTACAACGA ATGGGGGG	32043
2775	8255	UCUUCUCU A UGACUUUC	7950	GAAAGTCA GGCTAGCTACAACGA AGAGAAGA	32044
2873	8157	AUCGUCCU A UGCUCUUC	7968	GAAGAGCA GGCTAGCTACAACGA AGGACGAT	32045
3043	7987	CUUUGUGU A CCCUCUGA	8000	TCAGAGGG GGCTAGCTACAACGA ACACAAAG	32046
3080	7950	GUUGCCAU A UAGUAACA	8012	TGTTACTA GGCTAGCTACAACGA ATGGCAAC	32047
3271	7759	UUUGCGGU A CCUAGUGA	8052	TCACTAGG GGCTAGCTACAACGA ACCGCAAA	32048
3381	7649	UGUUCUUU A UGAGUGUC	8092	GCACTCA GGCTAGCTACAACGA AAGAACA	32049
3396	7634	UCCAUGUU A UGGAUAGA	8095	TCATATCA GGCTAGCTACAACGA AACATGGA	32050
3531	7499	CUUCUCGU A CUGUCUUC	8114	GAAGACAG GGCTAGCTACAACGA ACGAGAAG	32051
3555	7475	GGUUCACU A CUACUGCA	8120	TGCAGTAG GGCTAGCTACAACGA AGTGAACC	32052
3558	7472	UCACUACU A CUGCAGCU	8121	AGCTGCAG GGCTAGCTACAACGA AGTAGTGA	32053
3666	7364	CAUCCACU A CAGCGUUC	8137	GAACGCTG GGCTAGCTACAACGA AGTGGATG	32054
3780	7250	CCGUGUUU A CCGUAACG	8152	CGTTACGG GGCTAGCTACAACGA AACAGCCG	32055
3900	7130	GAACGUUU A UUGAGGUC	8165	GACCTCAA GGCTAGCTACAACGA AAACGTTT	32056
3982	7048	CACAGCGU A CAGUGACC	8177	GGTCACTG GGCTAGCTACAACGA ACGCTGTG	32057
4077	6953	AACUGCUU A UGUCACUC	8193	GAGTGACA GGCTAGCTACAACGA AAGCAGTT	32058

4094	6936	UUGGUCUU A UCUAGCCA	8199	TGGCTAGA GGCTAGCTACAACGA AAGACCAA	32059
4323	6707	CCAAACCU A UCUIUCCA	8234	TGGAAGA GGCTAGCTACAACGA AGGTTTGG	32060
4362	6668	GGAAGAAU A CUCCCAUG	8241	CATGGGAG GGCTAGCTACAACGA ATTCTTCC	32061
4480	6550	CACAACGU A CAUGGUGU	8264	ACACCATG GGCTAGCTACAACGA ACGTTGTG	32062
4554	6476	UGAGCCCU A UCUGAGAA	8277	TTCTCAGA GGCTAGCTACAACGA AGGGCTCA	32063
4615	6415	AUCCGAGU A CACCCUGG	8289	CCAGGGTG GGCTAGCTACAACGA ACTCGGAT	32064
4747	6283	GUCGUGGU A UGACACUC	8319	GAGTGTCA GGCTAGCTACAACGA ACCACGAC	32065
4849	6181	GAGCCGGU A UUCCCAU	8340	ATGGGGAA GGCTAGCTACAACGA ACCGGCTC	32066
4865	6165	UCCAUGGU A UAUACCUU	8344	AAGGTATA GGCTAGCTACAACGA ACCATGGA	32067
4867	6163	CAUGGUUU A UACCUUCU	8345	AGAAGGTA GGCTAGCTACAACGA ATACCATG	32068
4869	6161	UGGUUUUU A CCUUCUCA	8346	TGAGAAGG GGCTAGCTACAACGA ATATACCA	32069
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5030	6000	GGAUUUCU A CCGAUACG	8381	CGTATCGG GGCTAGCTACAACGA AGAATATC	32071
5036	5994	CUACCGAU A CGUCCACG	8382	CGTGGACG GGCTAGCTACAACGA ATCGGTAG	32072
5115	5915	CUUCUGUU A UGAUGGUU	8400	AACCATCA GGCTAGCTACAACGA AACAGAAG	32073
5187	5843	UUUCAGAU A UGUCUGUU	8417	AACAGACA GGCTAGCTACAACGA ATCTGAAA	32074
5225	5805	UCGUUCUU A CAUUUUGG	8427	CCAAAATG GGCTAGCTACAACGA AAGAACGA	32075
5236	5794	UUUUGGGU A CUCCGUCU	8431	AGACGGAG GGCTAGCTACAACGA ACCCAAAA	32076
5248	5782	CGUCUCGU A CGACUUUC	8435	GAAAGTCG GGCTAGCTACAACGA ACGAGACG	32077
5271	5759	AUUGGACU A CUUUCUUU	8442	AAAGAAAG GGCTAGCTACAACGA AGTCCAAT	32078
5356	5674	CCCGGUGU A UUCUGUGA	8461	TCACAGAA GGCTAGCTACAACGA ACACCGGG	32079
5374	5656	CCAUUCGU A UCCAGAGU	8467	ACTCTGGA GGCTAGCTACAACGA ACGAATGG	32080
5481	5549	UCAUGAAU A UUGCCGCC	8483	GGCGGCAA GGCTAGCTACAACGA ATTCATGA	32081
5663	5367	UUUCCAUU A UGUUCUCU	8511	AGAGAACA GGCTAGCTACAACGA AATGGAAA	32082
5692	5338	UGUCUGGU A CCGGAUGG	8516	CCATCCGG GGCTAGCTACAACGA ACCAGACA	32083
5781	5249	UUCUGUUU A UGGCCUCU	8534	AGAGGCCA GGCTAGCTACAACGA AAACAGAA	32084
5822	5208	CUUGUUUU A CCGGCGCC	8545	GGCGCCGG GGCTAGCTACAACGA AAAACAAG	32085
5847	5183	GAUCCAGU A CAGUGAUC	8547	GATCACTG GGCTAGCTACAACGA ACTGGATC	32086
5925	5105	CCUGCACU A UCGCGCUU	8568	AAGCGCGA GGCTAGCTACAACGA AGTGCAGG	32087
5934	5096	UCGCGCUU A UGUUAGAG	8571	CTCATACA GGCTAGCTACAACGA AAGCGCGA	32088
5938	5092	GCUUAUGU A UGAGCCGU	8572	ACGGCTCA GGCTAGCTACAACGA ACATAAGC	32089
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6003	5027	UGUCCACU A UUGGUGAG	8586	CTCACCAA GGCTAGCTACAACGA AGTGGACA	32091
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6266	4764	UUUGUUUU A UGCCAAAG	8642	CTTTGGCA GGCTAGCTACAACGA ACAACAAA	32093
6382	4648	CUUUUUUU A CUCCUUUG	8658	CAAAGGAG GGCTAGCTACAACGA ACAAAAAG	32094
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6456	4574	AUCCAACU A CUGAGGGC	8674	GCCCTCAG GGCTAGCTACAACGA AGTTGGAT	32097
6484	4546	GGGGGUGU A CGCACUAA	8676	TTAGTGCG GGCTAGCTACAACGA ACACCCCC	32098
6522	4508	GCAUCCAU A UCUIUCAA	8682	TTGGAAGA GGCTAGCTACAACGA ATGGATGC	32099
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6957	4073	AGCUGCCU A UUCCGACC	8767	GGTCGGAA GGCTAGCTACAACGA AGGCAGCT	32102
6978	4052	ACAGCAGU A UCCUGUAC	8771	GTACAGGA GGCTAGCTACAACGA ACTGCTGT	32103
6985	4045	UAUCCUGU A CACAUCCA	8773	TGGATGTG GGCTAGCTACAACGA ACAGGATA	32104
7068	3962	UGAAUGUU A UGGCUCUC	8787	GAGAGCCA GGCTAGCTACAACGA AACATTCA	32105
7080	3950	CUCUCAGU A UCAUCCAA	8790	TTGGATGA GGCTAGCTACAACGA ACTGAGAG	32106
7092	3938	UCCAAGCU A CCGCCAGU	8793	ACTGGCGG GGCTAGCTACAACGA AGCTTGGA	32107
7251	3779	CUGGUUGU A UCUGAAG	8817	CTTCAAGA GGCTAGCTACAACGA ACAACCGA	32108
7281	3749	CCAAGUGU A CCACGUCU	8821	AGACGTGG GGCTAGCTACAACGA ACCTTGG	32109
7395	3635	CAAUAGU A UAGCUGGC	8836	GCCAGCTA GGCTAGCTACAACGA ACTGATTG	32110
7493	3537	UCAAUCAU A UCAGCAUU	8846	AATGCTGA GGCTAGCTACAACGA ATGATTGA	32111
7502	3528	UCAGCAUU A UAAGCAUU	8849	AATGCTTA GGCTAGCTACAACGA AATGCTGA	32112
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7570	3460	CAUACCAU A CCAACAGC	8866	GCTGTTGG GGCTAGCTACAACGA ATGTTATG	32114
7638	3392	AAUCUGUU A UCAACUUU	8875	AAAGTTGA GGCTAGCTACAACGA AACAGATT	32115
7743	3287	CAAUCUCU A CCCGGCCU	8895	AGGCCGGG GGCTAGCTACAACGA AGAGATTG	32116
7783	3247	UGUCUUGU A CCCAGGUC	8904	GACCTGGG GGCTAGCTACAACGA ACAAGACA	32117
7833	3197	UGACUGGU A UUAUCAAG	8912	CTTGATAA GGCTAGCTACAACGA AACAGTCA	32118
7836	3194	CUGGUUUU A UCAAGUCA	8914	TGACTTGA GGCTAGCTACAACGA AATACCAG	32119
7874	3156	CACAAGGU A UGCUCUC	8922	GAGACGCA GGCTAGCTACAACGA ACCTTGTG	32120
7892	3138	GGCCACGU A CAUGAUUU	8925	AAATCATG GGCTAGCTACAACGA ACGTGGCC	32121

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8108	2922	UCUAAGCU A UUCCAAGC	8971	GCTTGGAA GGCTAGCTACAACGA AGCTTAGA	32123
8198	2832	AAUAAAAU A CUCUUUCC	8988	GGAAAGAG GGCTAGCTACAACGA ATTTTATT	32124
8272	2758	UGACUUGU A CAUUCCCU	9007	AGGGAATG GGCTAGCTACAACGA ACAAGTCA	32125
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8461	2569	AGGUAAU A CUUGUACC	9052	GGTACAAG GGCTAGCTACAACGA ATTACCCT	32127
8467	2563	AUACUUGU A CCGGUCCA	9054	TGGACCGG GGCTAGCTACAACGA ACAAGTAT	32128
8499	2531	CAUUGUGU A UGAACACU	9060	AGTGTTC A GGCTAGCTACAACGA ACACAATG	32129
8544	2486	UGAUGUCU A UGGCACAC	9069	GTGTGCCA GGCTAGCTACAACGA AGACATCA	32130
8622	2408	UGAGAGCU A UGGACCUA	9075	TAGGTCCA GGCTAGCTACAACGA AGCTCTCA	32131
8630	2400	AUGGACCU A UCACGAGC	9076	GCTCGTGA GGCTAGCTACAACGA AGGTCCAT	32132
8685	2345	CUUGCGUU A UCCAGGAC	9083	GTCTGGA GGCTAGCTACAACGA AACGCAAG	32133
8913	2117	CCACCACU A UGUUAGAG	9117	CTCATACA GGCTAGCTACAACGA AGTGGTGG	32134
8917	2113	CACUAUGU A UGAGUCUC	9118	GAGACTCA GGCTAGCTACAACGA ACATAGTG	32135
9079	1951	GCCAGUGU A CUGCAAUU	9141	AATGTCAG GGCTAGCTACAACGA AACTGGC	32136
9200	1830	UUCACUCU A CACUCAA	9164	TTGAAGTG GGCTAGCTACAACGA AGAGTGAA	32137
9306	1724	CCAAUGCU A UCACAGAC	9178	GTCTGTGA GGCTAGCTACAACGA AGCATTTG	32138
9374	1656	CACACAGU A CUUCCAGC	9194	GCTGGAAG GGCTAGCTACAACGA ACTGTGTG	32139
9463	1567	CACGUAGU A UGCAUUGG	9209	CCAATGCA GGCTAGCTACAACGA ATACGTG	32140
9517	1513	CUCUCCAU A UUCUCCAA	9219	TTGGAGAA GGCTAGCTACAACGA ATGGAGAG	32141
9538	1492	UAGUGUGU A UGAAGGCG	9226	CGCCTTCA GGCTAGCTACAACGA ACACACTA	32142
9655	1375	CACUUCGU A CUUGAUAU	9240	ATATCAAG GGCTAGCTACAACGA ACGAAGTG	32143
9662	1368	UACUUGAU A UUCUCUUU	9242	AAAGAGAA GGCTAGCTACAACGA ATCAAGTA	32144
9687	1343	UUCUCCU A UUGCCUUG	9253	CAAGGCAA GGCTAGCTACAACGA AGGAAGAA	32145
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10165	865	CAGGGCAU A UCCAGGGU	9327	ACCCTGGA GGCTAGCTACAACGA ATGCCCTG	32147
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10333	697	UCUCCAU A CCUGACGU	9365	ACGTCAGG GGCTAGCTACAACGA ATGGAAGA	32150
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10438	592	GCACAUGU A UCCCAU	9383	ATGTGGGA GGCTAGCTACAACGA ACATGTGC	32153
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10889	141	UUUAGCAU A UUGACAGC	9482	CTGTCTAA GGCTAGCTACAACGA ATGTGAAA	32157
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21	11009	CUCGCACC A CCAGCCAC	9515	GTGGCTGG GGCTAGCTACAACGA GGTGCGAG	32160
28	11002	CACCAGCC A CCAUUGUC	9519	GACAATGG GGCTAGCTACAACGA GGCTGGTG	32161
31	10999	CAGCCACC A UUGUCGGC	9521	GCCGACAA GGCTAGCTACAACGA GGTGGCTG	32162
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131	10899	UUUGUGGC A CGGGGUCU	9537	AGACCCCG GGCTAGCTACAACGA GCCACAAA	32164
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425	10605	GGGCUUAC A UGGAUCAC	9612	GTGATCCA GGCTAGCTACAACGA GTAAGCCC	32174
432	10598	CAUGGAUC A CUUCGCGG	9613	CGCGAAG GGCTAGCTACAACGA GATCCATG	32175
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587	10443	AAAACUAC A CUUUUAUG	9653	CATAAAAG GGCTAGCTACAACGA GTAGTTT	32181
597	10433	UUUUUAGC A UACUUUAU	9655	TATAAGTA GGCTAGCTACAACGA GCATAAAA	32182
668	10362	GUGUCUUC A UAUCUCUU	9668	AAGAGATA GGCTAGCTACAACGA GAAGACAC	32183
687	10343	GUGAACUC A UGUAAUCC	9672	GGATTACA GGCTAGCTACAACGA GAGTTCAC	32184

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698	10332	UAAUCCAC A UACUUCUC	9675	GAGAAGTA GGCTAGCTACAACGA GTGGATTA	32186
707	10323	UACUUCUC A UCUCGCAU	9678	ATCGGAGA GGCTAGCTACAACGA GAGAAGTA	32187
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760	10270	UUCUGCCC A CGUGGCUC	9691	GAGCCACG GGCTAGCTACAACGA GGGCAGAA	32189
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796	10234	GCUGCCAC A CCAGAUGU	9701	ACATCTGG GGCTAGCTACAACGA GTGGCAGC	32191
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838	10192	GUCACUCC A UUUCUCCA	9712	TGGAGAAA GGCTAGCTACAACGA GGAGTGAC	32193
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864	10166	UGUCUCC A UCCAUUCA	9719	TGAATGGA GGCTAGCTACAACGA GGAAGACA	32195
868	10162	UUCCAUC A UCAUUCU	9721	AGAATGAA GGCTAGCTACAACGA GGATGGAA	32196
872	10158	AUCCAUC A UUCUCCUC	9722	GAGGAGAA GGCTAGCTACAACGA GAATGGAT	32197
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928	10102	UGUCAUC A CUCUCCUC	9742	GAGGAGAG GGCTAGCTACAACGA GGATGACA	32201
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1284	9746	CCUUGAC A UAGCAUUG	9828	CAATGCTA GGCTAGCTACAACGA GTCAAAGG	32218
1289	9741	GACAUAGC A UUGAGGAA	9829	TTCCTCAA GGCTAGCTACAACGA GATGTGTC	32219
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1340	9690	UUUACCAC A CAGUCAUC	9836	GATGACTG GGCTAGCTACAACGA GTGGTAAA	32221
1346	9684	ACACAGUC A UCUCACU	9838	AGTGGAGA GGCTAGCTACAACGA GACTGTGT	32222
1352	9678	UCAUCUCC A CUGACAGC	9841	GCTGTCAG GGCTAGCTACAACGA GGAGATGA	32223
1362	9668	UGACAGCC A UGCGGCUG	9845	CAGCCGCA GGCTAGCTACAACGA GGCTGTCA	32224
1385	9645	UCUCCCC A UUCUCAA	9852	TTTGAGAA GGCTAGCTACAACGA GGGGAAGA	32225
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1442	9588	UUCUCCAC A UCAUCUGG	9869	CCAGATGA GGCTAGCTACAACGA GTGGAGAA	32227
1445	9585	UCCACUCC A UCUGGGCC	9870	GGCCCGA GGCTAGCTACAACGA GATGTGGA	32228
1458	9572	GGCCAAUC A CUCCUCC	9874	GGAAGGAG GGCTAGCTACAACGA GATTGGCC	32229
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1476	9554	CUCCAUC A UCCUACC	9884	GGTGAGGA GGCTAGCTACAACGA GATGGAAG	32231
1482	9548	UCAUCCUC A CCAGCUGG	9887	CCAGCTGG GGCTAGCTACAACGA GAGGATGA	32232
1538	9492	ACUUGUCC A CUCCCCU	9896	AGGGGGAG GGCTAGCTACAACGA GGACAAGT	32233
1568	9462	GAGAUAA C A UCCAUGAC	9907	GTCATGGA GGCTAGCTACAACGA GTTATCTC	32234
1572	9458	UAAAUCC A UGACGGUU	9909	AACCGTCA GGCTAGCTACAACGA GGATGTTA	32235
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1605	9425	GGCGCAUC A CUUUCACA	9917	TGTGAAAG GGCTAGCTACAACGA GATGCGCC	32238
1611	9419	UCACUUUC A CAACUUUG	9919	CAAAGTTG GGCTAGCTACAACGA GAAAGTGA	32239
1670	9360	UGUCCCC A UCAAGCAG	9932	CTGCTTGA GGCTAGCTACAACGA GGGGAACA	32240
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1745	9285	GCUGUGUC A UCAGCAUA	9953	TATGCTGA GGCTAGCTACAACGA GACACAGC	32243
1751	9279	UCAUCAGC A UAGAUCUU	9955	AAGATCTA GGCTAGCTACAACGA GCTGATGA	32244
1784	9246	CCAACUUC A CGCAGGAU	9966	ATCCTGCG GGCTAGCTACAACGA GAAGTTGG	32245
1826	9204	CCCUCGAC A CCUCCUC	9977	GGAGGAGG GGCTAGCTACAACGA GTCGAGGG	32246
1865	9165	UGGUCUUC A UUGAGAAA	9991	TTTCTCAA GGCTAGCTACAACGA GAAGACCA	32247

1912	9118	UCCGAGCC A CAUGAACC	10003	GGTTCATG	GGCTAGCTACAACGA	GGCTCGGA	32248
1914	9116	CGAGCCAC A UGAACCAA	10004	TTGGTTCA	GGCTAGCTACAACGA	GTGGCTCG	32249
1980	9050	UCUUUCCC A UCAUGUUG	10025	CAACATGA	GGCTAGCTACAACGA	GGGAAAGA	32250
1983	9047	UUCCCAUC A UGUUGUAA	10026	TTACAACA	GGCTAGCTACAACGA	GATGGGAA	32251
2005	9025	AGUGUGAC A UUCCCCC	10028	GGGGGGA	GGCTAGCTACAACGA	GTCACACT	32252
2036	8994	CGCUCCUC A UCCACCAU	10040	ATGGTGGA	GGCTAGCTACAACGA	GAGGAGCG	32253
2040	8990	CCUCAUCC A CCAUCUCC	10042	GGAGATGG	GGCTAGCTACAACGA	GGATGAGG	32254
2043	8987	CAUCCACC A UCUCCTAA	10044	TTGGGAGA	GGCTAGCTACAACGA	GGTGGATG	32255
2089	8941	GCUCUCC A UUGAUUCU	10059	AGAATCAA	GGCTAGCTACAACGA	GGAGGAGC	32256
2109	8921	CUUCAAAC A UGGCACCC	10064	GGGTGCCA	GGCTAGCTACAACGA	GTTTGAAG	32257
2114	8916	AACAUGGC A CCCAAAGC	10065	GCTTTGGG	GGCTAGCTACAACGA	GCTCATGT	32258
2126	8904	AAAGCUGC A UUGCUGUU	10070	AACAGCAA	GGCTAGCTACAACGA	GCAGCTTT	32259
2164	8866	UCGAGAGC A CAUUCUGG	10078	CCAGAATG	GGCTAGCTACAACGA	GCTCTCGA	32260
2166	8864	GAGAGCAC A UUCUGGGA	10079	TCCAGAA	GGCTAGCTACAACGA	GTGCTCTC	32261
2200	8830	AAACGCCC A CAACCAGU	10087	ACTGGTTG	GGCTAGCTACAACGA	GGGCGTTT	32262
2219	8811	GUGGUCUC A UUGAGCAC	10092	GTGCTCAA	GGCTAGCTACAACGA	GAGACCAC	32263
2226	8804	CAUUGAGC A CGUACUUC	10093	GAAGTACG	GGCTAGCTACAACGA	GCTCAATG	32264
2235	8795	CGUACUUC A CUCCUUCU	10095	AGAAGGAG	GGCTAGCTACAACGA	GAAGTACG	32265
2268	8762	UCGUGUCC A CCUUCUCU	10103	AGAGAAGG	GGCTAGCTACAACGA	GAACACGA	32266
2283	8747	CUUUGAAC A CUCGCGC	10108	GCAGCGAG	GGCTAGCTACAACGA	GTTCAAAG	32267
2316	8714	UGUCAGUC A UGGCCAUG	10115	CATGGCCA	GGCTAGCTACAACGA	GACTGACA	32268
2322	8708	UCAUGGCC A UGGUGGUA	10117	TACCACCA	GGCTAGCTACAACGA	GGCCATGA	32269
2333	8697	GUGGUAAC A UUCGUGAU	10118	ATCACGAA	GGCTAGCTACAACGA	GTTACCAC	32270
2350	8680	GGUGUCCC A UGGUUUUG	10121	CAAAACCA	GGCTAGCTACAACGA	GGGACACC	32271
2373	8657	GCCUGACC A CUCCAUG	10125	CAATGGAG	GGCTAGCTACAACGA	GGTCAGGC	32272
2378	8652	ACCACUCC A UUGACCAG	10128	CTGGTCAA	GGCTAGCTACAACGA	GGAGTGGT	32273
2412	8618	UGGCUUC A CAUCAUAA	10135	TTATGATG	GGCTAGCTACAACGA	GAAGCCCA	32274
2414	8616	GGCUUCAC A UCAUAACU	10136	AGTTATGA	GGCTAGCTACAACGA	GTGAAGCC	32275
2417	8613	UUCACAUC A UAACUGCC	10137	GGCAGTTA	GGCTAGCTACAACGA	GATGTGAA	32276
2459	8571	UGGUUCUC A UCGUGGUG	10144	CACCACGA	GGCTAGCTACAACGA	GAGAACCA	32277
2470	8560	GUGGUGCC A CGUCGAAC	10146	GTTTCGACG	GGCTAGCTACAACGA	GGCACCAC	32278
2486	8544	CUGUACUC A CGCCUGAG	10149	CTCAGGCG	GGCTAGCTACAACGA	GAGTACAG	32279
2550	8480	GUUUUCCC A CCGCCUCG	10161	CAGGGCGG	GGCTAGCTACAACGA	GGGAAAAC	32280
2564	8466	CUGGUUCC A CUUCCCAA	10167	TTGGGAAG	GGCTAGCTACAACGA	GGAACCAG	32281
2579	8451	AAGUUUAC A UCUUCCUC	10172	GAGGAAGA	GGCTAGCTACAACGA	GTAAACTT	32282
2619	8411	UUUUUCCC A UUCUUCCU	10184	AGGAAGAA	GGCTAGCTACAACGA	GGAAAATA	32283
2634	8396	CUAGGAGC A CCUGGCUG	10188	CAGCCAGG	GGCTAGCTACAACGA	GCTCCTAG	32284
2646	8384	GGCUGGUC A UAUUCACU	10192	AGTGAATA	GGCTAGCTACAACGA	GACCAGCC	32285
2652	8378	UCAUAUUC A CUGAAUGU	10193	ACATTTCAG	GGCTAGCTACAACGA	GAATATGA	32286
2664	8366	AAUGUACC A CAUUGCCU	10196	AGGCAATG	GGCTAGCTACAACGA	GGTACATT	32287
2666	8364	UGUACCAC A UUGCCUGA	10197	TCAGGCAA	GGCTAGCTACAACGA	GTGGTACA	32288
2685	8345	CUCGACUC A CCCAAUAC	10202	GTATTGGG	GGCTAGCTACAACGA	GAGTCGAG	32289
2694	8336	CCCAAUAC A UCUCGUGC	10206	GCACGAGA	GGCTAGCTACAACGA	GTATTGGG	32290
2744	8286	CCCCCCCC A UACCGGCG	10219	CGCCGGTA	GGCTAGCTACAACGA	GGGGGGGG	32291
2766	8264	GCAGCUCC A UCUUCUCU	10224	AGAGAAGA	GGCTAGCTACAACGA	GGAGCTGC	32292
2787	8243	CUUUCGGC A UGUAGGGG	10229	CCCTTACA	GGCTAGCTACAACGA	CGCGAAAG	32293
2802	8228	GGCAGAGC A CCUUCACG	10231	CGTGAAGG	GGCTAGCTACAACGA	GCTCTGCC	32294
2808	8222	GCACCUUC A CGCAAAAU	10234	ATTTTGGC	GGCTAGCTACAACGA	GAAGGTGC	32295
2850	8180	CCUCAACC A UUUCAAGG	10249	CCTTGAAA	GGCTAGCTACAACGA	GTTTGAGG	32296
2891	8139	ACCUCAGC A CUUGACGA	10261	TCGTCAAG	GGCTAGCTACAACGA	GCTGAGGT	32297
2915	8115	CCGAUGUC A CAAAGGAG	10266	CTCCTTTG	GGCTAGCTACAACGA	GACATCCG	32298
2930	8100	AGGGUGUC A CAACACUC	10268	GAGTGTG	GGCTAGCTACAACGA	GACACCCT	32299
2935	8095	GUCACAAC A CUCAGAAG	10270	CTTCTGAG	GGCTAGCTACAACGA	GTTGTGAC	32300
2955	8075	UGUAGAAC A CAUCCACU	10274	AGTGGATG	GGCTAGCTACAACGA	GTTCTACA	32301
2957	8073	UAGAACAC A UCCACUCC	10275	GGAGTGGA	GGCTAGCTACAACGA	GTTTCTTA	32302
2961	8069	ACACAUCC A CUCCACUC	10277	GAGTGGAG	GGCTAGCTACAACGA	GGATGTGT	32303
2966	8064	UCCACUCC A CUCUUCAU	10280	ATGAAGAG	GGCTAGCTACAACGA	GGAGTGGA	32304
2973	8057	CACUCUUC A UGGUGACA	10283	TGTACCA	GGCTAGCTACAACGA	GAAGAGTG	32305
2989	8041	AAUGUUC A UCCAUAAC	10286	GTTATGGA	GGCTAGCTACAACGA	GGAACATT	32306
2993	8037	UUCCAUC A UAACUUUG	10288	CAAAGTTA	GGCTAGCTACAACGA	GGATGGAA	32307
3003	8027	AACUUUGC A CUAGUUGG	10290	CCAAGTAG	GGCTAGCTACAACGA	GCAAAGTT	32308
3020	8010	GGUCUUC A UGUCCGGG	10294	CCGGGACA	GGCTAGCTACAACGA	GAAGAGCC	32309
3078	7952	GGUUGCC A UAUAGUAA	10309	TTACTATA	GGCTAGCTACAACGA	GGCAACCC	32310

3088	7942	AUAGUAAC A CCAACCGC	10310	GCGGTTGG GGCTAGCTACAACGA GTTACTAT	32311
3104	7926	CCUCUCC A CAUCCAAG	10318	CTTGGATG GGCTAGCTACAACGA GGAAGAGG	32312
3106	7924	UCUCCAC A UCCAAGGU	10319	ACCTTGGA GGCTAGCTACAACGA GTGGAAGA	32313
3120	7910	GGUCAAUC A CUUUUCCG	10323	CGGAAAAG GGCTAGCTACAACGA GATTGACC	32314
3160	7870	GACCAGCC A UCUCAGUU	10333	AACTGAGA GGCTAGCTACAACGA GGCTGGTC	32315
3206	7824	CCAGUGAC A UUGCCUUC	10347	GAAGGCAA GGCTAGCTACAACGA GTCCTGG	32316
3294	7736	CUUUUGUC A UCUGGUUG	10364	CAACCAGA GGCTAGCTACAACGA GACAAAAG	32317
3347	7683	UUUGCCCC A CCUCUUUU	10381	AAAAGAGG GGCTAGCTACAACGA GGGGCAAA	32318
3372	7658	GUUUUCC A UGUUCUUU	10388	AAAGAACA GGCTAGCTACAACGA GGAAAAAC	32319
3391	7639	GAGUGUCC A UGUUAUGG	10391	CCATAACA GGCTAGCTACAACGA GGACACTC	32320
3406	7624	GGAUAGAC A UGACAACC	10392	GGTTGTCA GGCTAGCTACAACGA GTCCTATCC	32321
3422	7608	CAACCCCC A CGCAUGAU	10400	ATCATGCG GGCTAGCTACAACGA GGGGGTTG	32322
3426	7604	CCCCACGC A UGAUGUGG	10401	CCACATCA GGCTAGCTACAACGA GCGTGGGG	32323
3479	7551	CUUGCUC A UUCUCCA	10411	TGGGAGAA GGCTAGCTACAACGA GGAGCAAG	32324
3495	7535	AAAGCGUC A CCGUGCG	10416	CGCAGCGG GGCTAGCTACAACGA GACGCTTT	32325
3540	7490	CUGUCUUC A CAGACGGG	10426	CCCGTCTG GGCTAGCTACAACGA GAAGACAG	32326
3552	7478	ACGGGUUC A CUACUACU	10428	AGTAGTAG GGCTAGCTACAACGA GAACCCGT	32327
3573	7457	CUAGAGAC A CCAAGAUC	10434	GATCTTGG GGCTAGCTACAACGA GTCTCTAG	32328
3585	7445	AGAUCAGC A UGAUCUGU	10438	ACAGATCA GGCTAGCTACAACGA GCTGATCT	32329
3609	7421	UCUUCUGC A UGAUGGGU	10445	ACCCATCA GGCTAGCTACAACGA GCAGAAGA	32330
3651	7379	CCGUGGCC A CGAUGCCA	10451	TGGCATCG GGCTAGCTACAACGA GGCCACGG	32331
3659	7371	ACGAUGCC A UCCACUAC	10453	GTAGTGGA GGCTAGCTACAACGA GGCATCGT	32332
3663	7367	UGCCAUC A CUACAGCG	10455	CGCTGTAG GGCTAGCTACAACGA GGATGGCA	32333
3678	7352	CGUUCUUC A UGAUUCG	10459	CGGAATCA GGCTAGCTACAACGA GAAGAACG	32334
3714	7316	CUGAGCGC A UUGCCUCA	10467	TGAGGCAA GGCTAGCTACAACGA GCGCTCAG	32335
3741	7289	CGGGAACC A UGUAGGCA	10476	TGCCTACA GGCTAGCTACAACGA GGTTCCTG	32336
3749	7281	AUGUAGGC A UAGUGGCA	10477	TGCCACTA GGCTAGCTACAACGA GCCTACAT	32337
3811	7219	UCCCCAGC A UCCGGCUG	10487	CAGCCGGA GGCTAGCTACAACGA GTGGGGA	32338
3837	7193	GAGCCGAC A CUCCAACA	10493	TGTTGGAG GGCTAGCTACAACGA GTCGGCTC	32339
3845	7185	ACUCCAAC A UCGACGAA	10497	TTCGTCGA GGCTAGCTACAACGA GTTGGAGT	32340
3884	7146	AAUAGUGC A CUUGCCUG	10500	CAGGCAAG GGCTAGCTACAACGA GCACTATT	32341
3975	7055	CUGUUGUC A CAGCGUAC	10511	GTACGCTG GGCTAGCTACAACGA GACACAG	32342
4029	7001	ACUCUCCC A UGCUGAAA	10527	TTTCAGCA GGCTAGCTACAACGA GGGAGAGT	32343
4082	6948	CUUAUGUC A CUCUUGGU	10542	ACCAAGAG GGCTAGCTACAACGA GACATAAG	32344
4107	6923	GCCAACCC A UCUCGUUG	10551	CAACGAGA GGCTAGCTACAACGA GGGTTGGC	32345
4122	6908	UGGCGGCC A CUGCGCUC	10555	GAGCGCAG GGCTAGCTACAACGA GGCAGCCA	32346
4131	6899	CUGCGCUC A CAAGGGUC	10558	GACCCCTG GGCTAGCTACAACGA GAGCGCAG	32347
4140	6890	CAAGGGUC A UGACACAA	10560	TTGTGTCA GGCTAGCTACAACGA GACCCCTG	32348
4145	6885	GUCAUGAC A CAAUUCAG	10561	CTGATTTG GGCTAGCTACAACGA GTCATGAC	32349
4158	6872	UCAGGAAC A CGGCUAGC	10564	GCTAGCCG GGCTAGCTACAACGA GTTCTGTA	32350
4212	6818	GAAUUAGC A CAAUCAUC	10574	GATGATTTG GGCTAGCTACAACGA GCTAATTC	32351
4218	6812	GCACAAUC A UCAAGAGA	10576	TCTCTTGA GGCTAGCTACAACGA GATTGTGC	32352
4242	6788	GCAGCAAC A UUCCGGCG	10580	CGCCGGAA GGCTAGCTACAACGA GTTGTCTG	32353
4275	6755	CUUCAGCC A UCCAACAG	10588	CTGTTGGA GGCTAGCTACAACGA GGCTGAAG	32354
4347	6683	UCCGCGC A UGAGGAGG	10612	CCTCCTCA GGCTAGCTACAACGA GGCAGCGA	32355
4368	6662	AUACUCCC A UGUCAUC	10616	GATGACCA GGCTAGCTACAACGA GGGAGTAT	32356
4374	6656	CCAUGGUC A UCACACUC	10617	GAGTGTGA GGCTAGCTACAACGA GACCATGG	32357
4377	6653	UGGUCAUC A CACUCAU	10618	ATTGAGTG GGCTAGCTACAACGA GATGACCA	32358
4379	6651	GUCAUCAC A CUCAAUAA	10619	TTATTGAG GGCTAGCTACAACGA GTGATGAC	32359
4415	6615	UGAAGAGC A UCUGGCAG	10626	CTGCCAGA GGCTAGCTACAACGA GCTCTTCA	32360
4437	6593	CCAGGGCC A UUCUGUGA	10634	TCACAGAA GGCTAGCTACAACGA GGCCCTGG	32361
4473	6557	CAGUGGCC A CAACGUAC	10646	GTACGTTG GGCTAGCTACAACGA GGCCACTG	32362
4482	6548	CAACGUAC A UGGUGUCA	10648	TGACACCA GGCTAGCTACAACGA GTACGTTG	32363
4501	6529	UGCUUCCC A UGUUUCU	10653	GGAAAGCA GGCTAGCTACAACGA GGAAGACA	32364
4512	6518	UCUUCUCC A UGAAGUGC	10658	GCACTTCA GGCTAGCTACAACGA GGGGAAGA	32365
4527	6503	GCUCAGGC A UCUUUCU	10661	GGGAAAGA GGCTAGCTACAACGA GCCTGAGC	32366
4617	6413	CCGAGUAC A CCUGGCG	10682	CGCCAGGG GGCTAGCTACAACGA GTACTCGG	32367
4658	6372	UUCUUUUC A CCAAGCUU	10695	AAGCTTGG GGCTAGCTACAACGA GAAAGGAA	32368
4680	6350	UGACUUC A CUUCGUUG	10701	CAACGAAG GGCTAGCTACAACGA GGAAGTCA	32369
4721	6309	CUAGGACC A UCAAAGCA	10708	TGCTTTGA GGCTAGCTACAACGA GGTCTTAG	32370
4729	6301	AUCAAAGC A CCACCUCC	10710	GGAGGTGG GGCTAGCTACAACGA GCTTTGAT	32371
4732	6298	AAAGCACC A CCUCGGU	10712	ACCGGAGG GGCTAGCTACAACGA GGTGCTTT	32372
4752	6278	GGUAUGAC A CUCCAGCC	10716	GGCTGGAG GGCTAGCTACAACGA GTCATACC	32373

4856	6174	UAUUC CCC A UCCAUGGU	10750	ACCATGGA	GGCTAGCTACAACGA	GGGGAATA	32374
4860	6170	CCCCAUCC A UGUUAUUAU	10752	ATATACCA	GGCTAGCTACAACGA	GGATGGGG	32375
4877	6153	ACCUUCUC A CGCUCUGG	10756	CCAGAGCG	GGCTAGCTACAACGA	GAGAAGGT	32376
4917	6113	CGUUUGGC A UGUUGAUG	10761	CATCAACA	GGCTAGCTACAACGA	GCCAAACG	32377
4935	6095	UGUCCAGC A UGAUUCGU	10764	ACGAATCA	GGCTAGCTACAACGA	GCTGGACA	32378
4979	6051	UCGUCUUC A UUCGUGUG	10771	CACACGAA	GGCTAGCTACAACGA	GAAGACGA	32379
4994	6036	UGCCCCCC A UAACAGUA	10777	TACTGTTA	GGCTAGCTACAACGA	GGGGGGCA	32380
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5009	6021	UACUCAUC A CCAACUUG	10781	CAAGTTGG	GGCTAGCTACAACGA	GATGAGTA	32382
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5057	5973	UGGGCGGC A CUAGCUGC	10791	GCAGCTAG	GGCTAGCTACAACGA	GGCGCCA	32384
5070	5960	CUGCUGUC A CUGCAGAU	10795	ATCTGCAG	GGCTAGCTACAACGA	GACAGCAG	32385
5094	5936	CCAGGAUC A CUCUCCCU	10802	AGGGAGAG	GGCTAGCTACAACGA	GATCCTGG	32386
5130	5900	UUGGUUUC A CACUCUUC	10812	GAAGAGTG	GGCTAGCTACAACGA	GAAACCAA	32387
5132	5898	GGUUUCAC A CUCUCCG	10813	CGGAAGAG	GGCTAGCTACAACGA	GTGAAACC	32388
5151	5879	UGUCAAUC A CCCUGCUC	10819	GAGCAGGG	GGCTAGCTACAACGA	GATTGACA	32389
5178	5852	UAGCCCCC A UUCAGAU	10830	ATCTGAAA	GGCTAGCTACAACGA	GGGGGCTA	32390
5216	5814	UCCCAAUC A UCGUUCU	10837	AAGAACGA	GGCTAGCTACAACGA	GATTGGGA	32391
5227	5803	GUUCUUAU A UUUUGGU	10839	ACCCAAAA	GGCTAGCTACAACGA	GTAAGAAC	32392
5285	5745	UUCCAGC A CGUUGUAG	10851	CTACAACG	GGCTAGCTACAACGA	GCTGGAAA	32393
5309	5721	GCAAUCUC A UUCCCCAU	10855	ATGGGGAA	GGCTAGCTACAACGA	GAGATTGC	32394
5316	5714	CAUUCCCC A UCUUGACA	10859	TGTCAAGA	GGCTAGCTACAACGA	GGGGAATG	32395
5324	5706	AUCUUGAC A CUAGGCAC	10861	GTGCCTAG	GGCTAGCTACAACGA	GTCAAGAT	32396
5331	5699	CACUAGGC A CAAACCAA	10863	TTGGTTTG	GGCTAGCTACAACGA	GCCTAGTG	32397
5368	5662	UGUGAUCC A UUCGUUUC	10873	GATACGAA	GGCTAGCTACAACGA	GGATCACA	32398
5475	5555	UGGCUGUC A UGAUAUUAU	10889	AATATTCA	GGCTAGCTACAACGA	GACAGCCA	32399
5564	5466	UGAGCCUC A UCCAUCAC	10910	GTGATGGA	GGCTAGCTACAACGA	GAGGCTCA	32400
5568	5462	CCUCAUCC A UCACGAAC	10912	GTTCTGTA	GGCTAGCTACAACGA	GGATGAGG	32401
5571	5459	CAUCCAUC A CGAACAGG	10913	CCTGTTTC	GGCTAGCTACAACGA	GATGGATG	32402
5592	5438	AGUUCGGC A CCCUGUGA	10915	TCACAGGG	GGCTAGCTACAACGA	GCCGAAC	32403
5607	5423	GAGGAGAC A UCAGCCUG	10919	CAGGCTGA	GGCTAGCTACAACGA	GTCTCTCT	32404
5630	5400	AGGGUAGC A UGACACAU	10923	ATGTGTCA	GGCTAGCTACAACGA	GCTACCCT	32405
5635	5395	AGCAUGAC A CAUGACAU	10924	ATGTCATG	GGCTAGCTACAACGA	GTCTATGT	32406
5637	5393	CAUGACAC A UGACAUCA	10925	TGATGTCA	GGCTAGCTACAACGA	GTGTCTATG	32407
5642	5388	CACAUGAC A UCAACAAU	10926	ATTGTTGA	GGCTAGCTACAACGA	GTCTATGT	32408
5654	5376	ACAAUCUC A UUUCCAUAU	10930	AATGGAAA	GGCTAGCTACAACGA	GAGATTGT	32409
5660	5370	UCAUUUCC A UUAUGUUC	10932	GAACATAA	GGCTAGCTACAACGA	GGAAATGA	32410
5676	5354	CUCUGGGC A CUGCGGAU	10935	ATCCGCAG	GGCTAGCTACAACGA	GCCGAGAG	32411
5724	5306	CUUCAGCC A UCUCAGCA	10947	TGCTGAGA	GGCTAGCTACAACGA	GGCTGAAG	32412
5736	5294	CAGCAGCC A CAACCCUG	10952	CAGGGTTG	GGCTAGCTACAACGA	GGCTGCTG	32413
5757	5273	GUGCUAGC A CGGCUGUU	10958	AACAGCCG	GGCTAGCTACAACGA	GCTAGCAC	32414
5871	5159	UCCUCAGC A UCUCAGGU	10982	ACCTGAGA	GGCTAGCTACAACGA	GCTGAGGA	32415
5903	5127	AUUGGCUC A UCCAUCCU	10988	AGGATGGA	GGCTAGCTACAACGA	GAGCCAAT	32416
5907	5123	GCUCAUCC A UCCUUUCA	10990	TGAAAGGA	GGCTAGCTACAACGA	GGATGAGC	32417
5915	5115	AUCCUUUC A CCCUGCAC	10993	GTGCAGGG	GGCTAGCTACAACGA	GAAAGGAT	32418
5922	5108	CACCCUGC A CUUUCGCG	10997	CGCGATAG	GGCTAGCTACAACGA	GACGGGTG	32419
5952	5078	CGUUGGGC A UUAUGACU	11001	AGTCATAA	GGCTAGCTACAACGA	GCCCAACG	32420
5963	5067	AUGACUCC A UUGCCAUA	11004	TATGGCAA	GGCTAGCTACAACGA	GGAGTCAT	32421
5969	5061	CCAUUGCC A UAAAGCCC	11006	GGGCTTTA	GGCTAGCTACAACGA	GGCAATGG	32422
5982	5048	GCCCAAUC A CAUACCCG	11010	CGGTGATG	GGCTAGCTACAACGA	GATTGGGC	32423
5984	5046	CCAAUCAC A UCACCGUU	11011	AACGGTGA	GGCTAGCTACAACGA	GTGATTGG	32424
5987	5043	AUCACAUC A CCGUUUUU	11012	AAAAACGG	GGCTAGCTACAACGA	GATGTGAT	32425
6000	5030	UUUUGUCC A CUUUGGU	11015	ACCAATAG	GGCTAGCTACAACGA	GGACAAAA	32426
6042	4988	CCAAAGUC A CGGCCCG	11023	CGGGGCCG	GGCTAGCTACAACGA	GACTTTTG	32427
6075	4955	UUUUGAAC A CCCUGGU	11031	ACCAGGGG	GGCTAGCTACAACGA	GTTCAAAA	32428
6120	4910	CAGGUUCC A CCACAAUC	11042	GATTGTGG	GGCTAGCTACAACGA	GGAACTCTG	32429
6123	4907	GUUCCACC A CAAUCAUC	11044	GATGATTG	GGCTAGCTACAACGA	GGTGGAAC	32430
6129	4901	CCACAAUC A UCUGCACC	11046	GGTGCAGA	GGCTAGCTACAACGA	GATTGTGG	32431
6135	4895	UCAUCUGC A CCUCAUCC	11048	GGATGAGG	GGCTAGCTACAACGA	GCAGATGA	32432
6140	4890	UGCACCUC A UCCUGCCC	11051	GGGCAGGA	GGCTAGCTACAACGA	GAGGTGCA	32433
6154	4876	CCCGUUCU A CUUGUGCU	11057	AGCACAAG	GGCTAGCTACAACGA	GGAAACGGG	32434
6206	4824	UCCUUGAC A CUGCCCCA	11071	TGGGGCAG	GGCTAGCTACAACGA	GTCAAGGA	32435
6243	4787	CUCGCGUC A UCAAAGCG	11085	CGCTTTGA	GGCTAGCTACAACGA	GAGCGGAG	32436

6287	4743	UGGAAAAC A CCUJCAAC	11092	GTTGAAGG GGCTAGCTACAACGA GTTTTCCA	32437
6297	4733	CUUCAACC A UCACGCCC	11097	GGGCGTGA GGCTAGCTACAACGA GGTGAAG	32438
6300	4730	CAACCAUC A CGCCGCU	11098	AGCGGGCG GGCTAGCTACAACGA GATGGTTG	32439
6335	4695	AGCAGCCC A CGAGUCAU	11110	ATGACTCG GGCTAGCTACAACGA GGGCTGCT	32440
6342	4688	CACGAGUC A UGAUCCUG	11111	CAGGATCA GGCTAGCTACAACGA GACTCGTG	32441
6406	4624	AGUGUCCC A CAACACGC	11125	GCGTGTG GGCTAGCTACAACGA GGGACACT	32442
6411	4619	CCCACAAC A CGCCUCCU	11127	AGGAGGCG GGCTAGCTACAACGA GTTGTGGG	32443
6488	4542	GUGUACGC A CUAUUCG	11144	GCGATTAG GGCTAGCTACAACGA GCGTACAC	32444
6507	4523	GACAGACC A UUCUGAGC	11148	GCTCAGAA GGCTAGCTACAACGA GGTCTGTC	32445
6516	4514	UUCUGAGC A UCCAUUUC	11150	GATATGGA GGCTAGCTACAACGA GCTCAGAA	32446
6520	4510	GAGCAUCC A UAUCUUC	11152	GGAAGATA GGCTAGCTACAACGA GGATGCTC	32447
6545	4485	CCUGGAUC A UUCAUGAG	11159	CTCATGAA GGCTAGCTACAACGA GATCCAGG	32448
6549	4481	GAUCAUUC A UGAGCUGG	11160	CCAGCTCA GGCTAGCTACAACGA GAATGATC	32449
6566	4464	AAGUUUCC A UCAUCAUC	11163	GATGATGA GGCTAGCTACAACGA GGAACTT	32450
6569	4461	UUUCCAUC A UCAUCAAG	11164	CTTGATGA GGCTAGCTACAACGA GATGAAA	32451
6572	4458	CCAUCAUC A UCAAGCCG	11165	CGGCTTGA GGCTAGCTACAACGA GATGATGG	32452
6582	4448	CAAGCCGC A CAUCAUCU	11168	AGTTGATG GGCTAGCTACAACGA GCGGCTTG	32453
6584	4446	AGCCGCAC A UCAACUCU	11169	AGAGTTGA GGCTAGCTACAACGA GTGCGGCT	32454
6617	4413	AUUUCUGC A UCACUUUC	11177	GAAAGTGA GGCTAGCTACAACGA GCAGAAAT	32455
6620	4410	UCUGCAUC A CUUJCCCA	11178	TGGGAAAG GGCTAGCTACAACGA GATGCAGA	32456
6655	4375	CUCAAUCC A CAUAUCUG	11189	CAGATATG GGCTAGCTACAACGA GGATTGAG	32457
6657	4373	CAAUCCAC A UAUCUGUU	11190	AACAGATA GGCTAGCTACAACGA GTGGATTG	32458
6681	4349	CAGAAAUC A CGAAAGCA	11195	TGCTTTCG GGCTAGCTACAACGA GATTCTTG	32459
6696	4334	CAGCAAAC A UGAGCCCC	11198	GGGGCTCA GGCTAGCTACAACGA GTTGTCTG	32460
6714	4316	CGAUAGUC A UUGGAAUG	11202	CATTCCAA GGCTAGCTACAACGA GACTATCG	32461
6726	4304	GAAUGGCC A UGGAGUCA	11204	TGACTCCA GGCTAGCTACAACGA GGCCATTG	32462
6771	4259	UGGCAAAC A UUAGGCCG	11216	CGGCCTAA GGCTAGCTACAACGA GTTTGCCA	32463
6789	4241	CAGCUGUC A UCACUUA	11220	TGAAGTGA GGCTAGCTACAACGA GACAGCTG	32464
6792	4238	CUGUCAUC A CUUCAGUU	11221	AACTGAAG GGCTAGCTACAACGA GATGACAG	32465
6808	4222	UGCGGGCC A UCCGCGUU	11225	AACGCGGA GGCTAGCTACAACGA GGCCCGCA	32466
6830	4200	UUGGGAUC A CAUGCAAU	11227	ATTGCATG GGCTAGCTACAACGA GATCCCAA	32467
6832	4198	GGGAUCAC A UGCAAUCA	11228	TGATTGCA GGCTAGCTACAACGA GTGATCCC	32468
6858	4172	CAAGGAUC A UGGGGUUG	11235	CAACCCCA GGCTAGCTACAACGA GATCCTTG	32469
6895	4135	AGCCAAGC A UAGCAGAC	11241	GTCTGCTA GGCTAGCTACAACGA GCTTGGCT	32470
6929	4101	GCAGCUGC A CUCCUUU	11250	AAGAGGAG GGCTAGCTACAACGA GCAGCTGC	32471
6966	4064	UUCCGACC A UCAACAGC	11265	GCTGTTGA GGCTAGCTACAACGA GGTCGGAA	32472
6987	4043	UCCUGUAC A CAUCCAGA	11271	TCTGGATG GGCTAGCTACAACGA GTACAGGA	32473
6989	4041	CUGUACAC A UCCAGAUU	11272	AATCTGGA GGCTAGCTACAACGA GTGTACAG	32474
7003	4027	AUUCAAGC A UCUCAGCC	11276	GGCTGAGA GGCTAGCTACAACGA GCTTGAAT	32475
7044	3986	GAACAACC A CGUUUGAU	11286	ATCAAACG GGCTAGCTACAACGA GGTTGTTT	32476
7083	3947	UCAGUAUC A UCCAAGCU	11290	AGCTTGGA GGCTAGCTACAACGA GATACTGA	32477
7110	3920	AAUUCAAC A CAUCAGGG	11298	CCCTGATG GGCTAGCTACAACGA GTTGAATT	32478
7112	3918	UUCAACAC A UCAGGGAU	11299	ATCCCTGA GGCTAGCTACAACGA GTGTTGAA	32479
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7158	3872	GAUAAGCC A UUUGAAAG	11308	CTTTCAAA GGCTAGCTACAACGA GGCTTATC	32481
7182	3848	CCGCCAAC A UCAACAAA	11313	TTTGTGTA GGCTAGCTACAACGA GTTGCGCG	32482
7210	3820	GUUGGUCC A UCUCGCUU	11320	AAGCGAGA GGCTAGCTACAACGA GGACCAAC	32483
7233	3797	ACGAUGCC A CCAUAAAC	11324	GTTTATGG GGCTAGCTACAACGA GGCATCGT	32484
7236	3794	AUGCCACC A UAAACACU	11326	AGTGTTTA GGCTAGCTACAACGA GGTGGCAT	32485
7242	3788	CCAUA AAC A CUGGUUGU	11327	ACAACCAG GGCTAGCTACAACGA GTTTATGG	32486
7266	3764	AGGUCGCC A UGAGCGCC	11331	GGCGCTCA GGCTAGCTACAACGA GGCGACCT	32487
7284	3746	AGUGUACC A CGUCUCCU	11335	AGGAGACG GGCTAGCTACAACGA GTTACACT	32488
7323	3707	CUGCCCCC A CCAAGAUG	11347	CATCTTGG GGCTAGCTACAACGA GGGGCGAG	32489
7334	3696	AAGAUGAC A UAGCGUAA	11350	TTACGCTA GGCTAGCTACAACGA GTCATCTT	32490
7344	3686	AGCGUAAC A CAUCAGUG	11351	CACTGATG GGCTAGCTACAACGA GTTACGCT	32491
7346	3684	CGUAACAC A UCAGUGUA	11352	TACACTGA GGCTAGCTACAACGA GTGTTACG	32492
7371	3659	CCCCAAAC A CCAGGACU	11359	AGTCCTGG GGCTAGCTACAACGA GTTTGGGG	32493
7404	3626	UAGCUGGC A UGUGUAUC	11367	GATCAGCA GGCTAGCTACAACGA GCCAGCTA	32494
7423	3607	GGCUGUCC A CCUCUUGC	11372	GCAAGAGG GGCTAGCTACAACGA GGACAGCC	32495
7458	3572	CCAAGAAC A CGACCAGA	11382	TCTGGTCG GGCTAGCTACAACGA GTTCTTGG	32496
7491	3539	GGUCAAUC A UAUCAGCA	11390	TGCTGATA GGCTAGCTACAACGA GCTGATAC	32497
7499	3531	AUAUCAGC A UUAUAAGC	11392	GCTTATAA GGCTAGCTACAACGA GCTGATAT	32498
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7538	3492	GUCUUUUC A UCAUGUCU	11399	AGACATGA GGCTAGCTACAACGA GAAAAGAC	32502
7541	3489	UUUUCAUC A UGUCUCUG	11400	CAGAGACA GGCTAGCTACAACGA GATGAAAA	32503
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7568	3462	UCCAUAAC A UACCAACA	11408	TGTTGGTA GGCTAGCTACAACGA GGTATGGA	32505
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7679	3351	GCAGGUCC A CGGUGUCC	11433	GGACACCG GGCTAGCTACAACGA GGACCTGC	32507
7697	3333	CAGCUCUC A CUCAGGGU	11438	ACCCTGAG GGCTAGCTACAACGA GAGAGCTG	32508
7759	3271	UUCGUCCC A UGGGCCCU	11454	AGGGCCCA GGCTAGCTACAACGA GGGACGAA	32509
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7859	3171	AGGAUUC A UCGCCCCA	11476	TGGGGCGA GGCTAGCTACAACGA GGAATCCT	32511
7867	3163	AUCGCCCC A CAAGGUU	11480	ATACCTTG GGCTAGCTACAACGA GGGGCGAT	32512
7888	3142	CUCAGGCC A CGUACAUG	11485	CATGTACG GGCTAGCTACAACGA GGCCTGAG	32513
7894	3136	CCACGUAC A UGAUUUGA	11486	TCAAATCA GGCTAGCTACAACGA GTACGTGG	32514
7907	3123	UUGACUUC A CCCAGAAC	11488	GTTCTGGG GGCTAGCTACAACGA GAAGTCAA	32515
7933	3097	AAGCUUCC A CGUAUCAU	11499	ATGATACG GGCTAGCTACAACGA GGAAGCTT	32516
7940	3090	CACGUUUC A UUGAGCCU	11500	AGGCTCAA GGCTAGCTACAACGA GATACGTG	32517
7973	3057	GACAGGUC A CUGUGGAU	11508	ATCCACAG GGCTAGCTACAACGA GACCTGTC	32518
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8026	3004	CGAGUCAC A UUCAGUUG	11519	CAACTGAA GGCTAGCTACAACGA GTGACTCG	32520
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8153	2877	UCCGGACC A UCAACCAC	11551	GTGGTTGA GGCTAGCTACAACGA GGTCCGGA	32524
8160	2870	CAUCAACC A CAAAGGUG	11554	CACCTTGG GGCTAGCTACAACGA GGTGTGATG	32525
8274	2756	ACUUGUAC A UUCCCUCC	11575	GGAGGGAA GGCTAGCTACAACGA GTACAAGT	32526
8295	2735	UCUCAACC A CGACACUA	11584	TAGTGTCTG GGCTAGCTACAACGA GGTGTGAA	32527
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8312	2718	AGGUCCAC A CCAUUCUC	11589	GAGAATGG GGCTAGCTACAACGA GTGGACCT	32530
8315	2715	UCCACACC A UUCUCCU	11591	AAGGAGAA GGCTAGCTACAACGA GGTGTGGA	32531
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8359	2671	UGC UUUCC A CAUUGAU	11605	ATCAAATG GGCTAGCTACAACGA GGAAGCA	32533
8361	2669	CUUCCAC A UUGAUGC	11606	GCATCAA GGCTAGCTACAACGA GTGGGAAG	32534
8398	2632	UAGACCGC A CACUCCU	11613	AAGGAGTG GGCTAGCTACAACGA GCGGTCTA	32535
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8475	2555	ACCGGUCC A UCCAAGCC	11630	GGCTTGGA GGCTAGCTACAACGA GGACCGGT	32537
8487	2543	AAGCCUCC A CAUCAUUG	11636	CAATGATG GGCTAGCTACAACGA GGAGGCTT	32538
8489	2541	GCCUCCAC A UCAUUGUG	11637	CACAATGA GGCTAGCTACAACGA GTGGAGGC	32539
8492	2538	UCCACAUC A UUGUGU	11638	ATACACAA GGCTAGCTACAACGA GATGTGGA	32540
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8653	2377	GCCCAUCC A CAACAGGA	11678	TCCTGTTG GGCTAGCTACAACGA GGATGGGC	32552
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8763	2267	AGGUGAAC A CCCUCCA	11709	TGGAGGGG GGCTAGCTACAACGA GTTCACTT	32555
8907	2123	CUCUGCCC A CCACUAUG	11749	CATAGTGG GGCTAGCTACAACGA GGGCAGAG	32556
8910	2120	UGCCACC A CUAUGU	11751	ATACATAG GGCTAGCTACAACGA GGTGGGCA	32557
8973	2057	CCGUGGCC A CUGAAACA	11764	TGTTTCAG GGCTAGCTACAACGA GGCCACGG	32558
9009	2021	AUCUGCCC A CUGGCGUU	11773	AACGCCAG GGCTAGCTACAACGA GGGCAGAT	32559
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9065	1965	CAAGGUCC A UCCGUGCC	11782	GGCACGGA GGCTAGCTACAACGA GGACCTTG	32561
9093	1937	AUCCAAC A CCACAGUG	11790	CACTGTGG GGCTAGCTACAACGA GTTGAAT	32562

9096	1934	CCAACACC A CAGUGCCG	11792	CGGCACTG GGCTAGCTACAACGA GGTGTTGG	32563
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9189	1841	AUUUUUCC A UCUUCACU	11814	AGTGAAGA GGCTAGCTACAACGA GGAATAAT	32565
9195	1835	CCAUCUUC A CUCUACAC	11816	GTGTAGAG GGCTAGCTACAACGA GAAGATGG	32566
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9494	1536	CGUGGUUC A CAGUCCAC	11894	GTGGACTG GGCTAGCTACAACGA GAACCAAG	32580
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9927	1103	CCAUAUUC A UCAUCUUC	12001	GAAGATGA GGCTAGCTACAACGA GAATATGG	32597
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9936	1094	UCAUCUUC A CAUCGAUG	12004	CATCGATG GGCTAGCTACAACGA GAAGATGA	32599
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9963	1067	CCUAGAC A UGAUAGUC	12009	GACTATCA GGCTAGCTACAACGA GTCTAAGG	32601
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10427	603	AUAGUAUC A UCGCAU	12131	ATGTGCGA GGCTAGCTACAACGA GATCTAT	32624
10432	598	AUCAUCGC A CAUGUAUC	12132	GATACATG GGCTAGCTACAACGA GCGATGAT	32625

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10533	497	CCGUCAUC A UCACCUUC	12155	GAAGGTGA GGCTAGCTACAACGA GATGACGG	32634
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10593	437	GGCCAAUC A UGACUGCA	12170	TGCAGTCA GGCTAGCTACAACGA GTATGGCC	32636
10655	375	UUGAUAGC A CUGGUCAA	12184	TTGACCAG GGCTAGCTACAACGA GCTATCAA	32637
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10719	311	GUUUGUUC A CACCUCUC	12197	GAGAGGTG GGCTAGCTACAACGA GAACAAAC	32639
10721	309	UUGUUCAC A CCUCUCCA	12198	TGGAGAGG GGCTAGCTACAACGA GTGAACAA	32640
10729	301	ACCUCUCC A UCGAUCCA	12203	TGGATCGA GGCTAGCTACAACGA GGAGAGGT	32641
10740	290	GAUCCAGC A CUGCUCGG	12206	CCGAGCAG GGCTAGCTACAACGA GCTGGATC	32642
10794	236	GAGCCAAC A CAAUUCGU	12217	ACGATTTG GGCTAGCTACAACGA GTTGGCTC	32643
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10863	167	AGGACAAC A CGCGGGC	12237	GCCCCGCG GGCTAGCTACAACGA GTTGCTCT	32645
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10887	143	GUUUUAGC A UAUUGACA	12240	TGTCAATA GGCTAGCTACAACGA GCTAAAAC	32647
10932	98	UCUUAGAC A UCGAGAUC	12253	GATCTCGA GGCTAGCTACAACGA GTCTAAGA	32648
10963	67	CAGCUCGC A CUGUGUUA	12258	TAACACAG GGCTAGCTACAACGA GCGAGCTG	32649
10988	42	UAAUCCUC A CAAACACU	12262	AGTGTTTG GGCTAGCTACAACGA GAGGATTA	32650
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11014	16	GUCAGCUC A CACAGGCG	12269	CGCCTGTG GGCTAGCTACAACGA GAGCTGAC	32652
11016	14	CAGCUCAC A CAGGCGAA	12270	TTGCGCTG GGCTAGCTACAACGA GTGAGCTG	32653
10	11020	GAUCCUGU G UUCUCGCA	12272	TGCGAGAA GGCTAGCTACAACGA ACAGGATC	32654
16	11014	GUGUUCUC G CACCACCA	12273	TGGTGGTG GGCTAGCTACAACGA GAGAACAC	32655
25	11005	CACCACCA G CCACCAU	12274	AATGGTGG GGCTAGCTACAACGA TGGTGGTG	32656
34	10996	CCACCAU G UCGGCGCA	12275	TGCGCCGA GGCTAGCTACAACGA AATGGTGG	32657
38	10992	CAUUGUCG G CGCACUGU	12276	ACAGTGCG GGCTAGCTACAACGA CGACAATG	32658
40	10990	UUGUCGGC G CACUGUGC	12277	GCACAGTG GGCTAGCTACAACGA GCCGACAA	32659
45	10985	GGCGCACU G UGCCGUGU	12278	ACACGGCA GGCTAGCTACAACGA AGTGCGCC	32660
47	10983	CGCACUGU G CCGUGUGG	12279	CCACACGG GGCTAGCTACAACGA ACAGTGCG	32661
50	10980	ACUGUGCC G UUGGCGUG	12280	CAGCCACA GGCTAGCTACAACGA GGCACAGT	32662
52	10978	UGUGCCGU G UGGCUGGU	12281	ACCAGCCA GGCTAGCTACAACGA ACGGCACA	32663
55	10975	GCCGUGUG G CUGGUUGU	12282	ACAACCAG GGCTAGCTACAACGA CACACGGC	32664
59	10971	UGUGGCG G UUGUGCAG	12283	CTGCACAA GGCTAGCTACAACGA CAGCCACA	32665
62	10968	GGCUGGUU G UGCAGAGC	12284	GCTCTGCA GGCTAGCTACAACGA AACCAGCC	32666
64	10966	CUGGUUGU G CAGAGCAG	12285	CTGCTCTG GGCTAGCTACAACGA ACAACCAG	32667
69	10961	UGUGCAGA G CAGAAGAU	12286	ATCTTCTG GGCTAGCTACAACGA TCTGCACA	32668
84	10946	AUCUCCUA G UCUAUCCC	12287	GGGATAGA GGCTAGCTACAACGA TAGGAGAT	32669
95	10935	UAUCCAG G UGUCAUA	12288	TATTGACA GGCTAGCTACAACGA CTGGGATA	32670
97	10933	UCCAGGU G UCAUAUAG	12289	CATATTGA GGCTAGCTACAACGA ACCTGGGA	32671
105	10925	GUCAUAU G CUGUUUUG	12290	CAAAACAG GGCTAGCTACAACGA ATATTGAC	32672
108	10922	AAUAUGCU G UUUUGUUG	12291	CAACAAAA GGCTAGCTACAACGA AGCATATT	32673
113	10917	GCUGUUUU G UUGUGGUG	12292	CACCACAA GGCTAGCTACAACGA AAAACAGC	32674
116	10914	GUUUUGUU G UGGUGUUU	12293	AAACACCA GGCTAGCTACAACGA AACAAAAC	32675
119	10911	UUGUUGUG G UGUUUUGU	12294	ACAAAACA GGCTAGCTACAACGA CACAACAA	32676
121	10909	GUUGUGGU G UUUUGUGG	12295	CCACAAAA GGCTAGCTACAACGA ACCACAAC	32677
126	10904	GGUGUUUU G UGGCACGG	12296	CCGTGCCA GGCTAGCTACAACGA AAAACACC	32678
129	10901	GUUUUGUG G CACGGGUG	12297	ACCCCGTG GGCTAGCTACAACGA CACAAAAC	32679
136	10894	GGCACGGG G UCUCACU	12298	AGTGGAGA GGCTAGCTACAACGA CCGGTGCC	32680
153	10877	AACCUUA G UCCUCCC	12299	GGGAAGGA GGCTAGCTACAACGA TAGAGGTT	32681
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178	10852	CAGCUUCA G UCAGGCUG	12301	CAGCCTGA GGCTAGCTACAACGA TGAAGCTG	32683
183	10847	UCAGUCAG G CUGGGCCG	12302	CGGCCAG GGCTAGCTACAACGA CTGACTGA	32684
188	10842	CAGGCUGG G CCGUGCAC	12303	GTGCACGG GGCTAGCTACAACGA CCAGCCTG	32685
191	10839	GCUGGGCC G UGCACUUU	12304	AAAGTGCA GGCTAGCTACAACGA GGCCAGC	32686
193	10837	UGGCGCGU G CACUUUAA	12305	TTAAAGTG GGCTAGCTACAACGA ACGGCCCA	32687
205	10825	UUUAAACC G CGGGGUCU	12306	AGACCCCG GGCTAGCTACAACGA GGTTTAAA	32688

210	10820	ACCGCGGG G UCUCUCU	12307	AGAGGAGA GGCTAGCTACAACGA CCCGCGGT	32689
227	10803	AACCUCUA G UCCUUUCG	12308	CGAAAGGA GGCTAGCTACAACGA TAGAGGTT	32690
235	10795	GUCCUUUC G CCCUGGUU	12309	AACCAGGG GGCTAGCTACAACGA GAAAGGAC	32691
241	10789	UCGCCUG G UUAACACC	12310	GGTGTAA GGCTAGCTACAACGA CAGGGCGA	32692
259	10771	UUACCGGG G CUAGGGCC	12311	GGCCCTAG GGCTAGCTACAACGA CCCGGTAA	32693
265	10765	GGGCUAGG G CCGCGUGG	12312	CCACGCGG GGCTAGCTACAACGA CCTAGCCC	32694
268	10762	CUAGGGCC G CGUGGGGC	12313	GCCCCACG GGCTAGCTACAACGA GGCCCTAG	32695
270	10760	AGGGCCGC G UGGGGCGU	12314	ACGCCCCA GGCTAGCTACAACGA GCGGCCCT	32696
275	10755	CGCGUGGG G CGUUGGUU	12315	AACCAACG GGCTAGCTACAACGA CCCACGCG	32697
277	10753	CGUGGGGC G UUGGUUUG	12316	CAAACCAA GGCTAGCTACAACGA GCCCCACG	32698
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285	10745	GUUGGUUU G CCUUUGUU	12318	AACAAAGG GGCTAGCTACAACGA AAACCAAC	32700
291	10739	UUGCCUUU G UUAACCCA	12319	TGGGTAA GGCTAGCTACAACGA AAAGGCAA	32701
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311	10719	CUCCUGGG G CACUAUCG	12321	CGATAGTG GGCTAGCTACAACGA CCCAGGAG	32703
319	10711	GCACUAUC G CAGACUGC	12322	GCAGTCTG GGCTAGCTACAACGA GATAGTGC	32704
326	10704	CGCAGACU G CACUCUCC	12323	GGAGAGTG GGCTAGCTACAACGA AGTCTGCG	32705
335	10695	CACUCUCC G CAGAGUAG	12324	CTACTCTG GGCTAGCTACAACGA GCGAGGTG	32706
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343	10687	GCAGAGUA G CACGCCGU	12326	ACGGCGTG GGCTAGCTACAACGA TACTCTGC	32708
347	10683	AGUAGCAC G CCGUAGCG	12327	CGCTACGG GGCTAGCTACAACGA GTGCTACT	32709
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353	10677	ACGCCGUA G CGUGGUCU	12329	AGACCACG GGCTAGCTACAACGA TACGGCGT	32711
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378	10652	GCUUUGAA G UUAACAAC	12333	TGTTGTAA GGCTAGCTACAACGA TTCAAAGC	32715
388	10642	UACAACAU G UGGGGUCC	12334	GGACCCCA GGCTAGCTACAACGA ATGTTGTA	32716
393	10637	CAUGUGGG G UCCUCCUU	12335	AAGGAGGA GGCTAGCTACAACGA CCCACATG	32717
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419	10611	UUCUGAGG G CUUACAUG	12337	CATGTAAG GGCTAGCTACAACGA CCTCAGAA	32719
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440	10590	ACUUCGCG G CUUUGUUC	12339	GAACAAAG GGCTAGCTACAACGA CGCGAAGT	32721
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504	10526	UUCCGUG G CGGGAACU	12349	AGTTCCCG GGCTAGCTACAACGA CACCGGAA	32731
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595	10435	ACUUUUAU G CAUACUUA	12351	TAAGTATG GGCTAGCTACAACGA ATAAAAGT	32733
608	10422	CUUAUAUU G UCUAUUUA	12352	TAAATAGA GGCTAGCTACAACGA AATATAAG	32734
637	10393	UAUCUACA G UACUGUGU	12353	ACACAGTA GGCTAGCTACAACGA TGTAGATA	32735
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660	10370	CCAAAGUU G UGUUCUUA	12357	TGAAGACA GGCTAGCTACAACGA AACTTTGG	32739
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731	10299	CUGACUUG G UUGAUAGC	12362	GCTATCAA GGCTAGCTACAACGA CAAGTCAG	32744
738	10292	GGUUGAUA G CCACCUGG	12363	CCAGGTGG GGCTAGCTACAACGA TATCAACC	32745
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777	10253	GGGCUCUU G UGCCAAUC	12369	GATTGGCA GGCTAGCTACAACGA AAGAGCCC	32751

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788	10242	CCAAUCAG G CUGCCACA	12371	TGTGGCAG GGCTAGCTACAACGA CTGATTGG	32753
791	10239	AUCAGGCU G CCACACCA	12372	TGGTGTGG GGCTAGCTACAACGA AGCCTGAT	32754
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811	10219	GUCCUCUC G UUUUCCUG	12374	CAGGAAAA GGCTAGCTACAACGA GAGAGGAC	32756
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852	10178	CCACUGGG G UUUUGUCU	12376	AGACAAAA GGCTAGCTACAACGA CCCAGTGG	32758
857	10173	GGGGUUUU G UCUUCCA	12377	ATGGAAGA GGCTAGCTACAACGA AAAACCCC	32759
893	10137	CAAACACG G UCCAGAC	12378	GTCTGGAA GGCTAGCTACAACGA CGTGTTTG	32760
911	10119	UCCAACAU G UCCUCUGU	12379	ACAGAGGA GGCTAGCTACAACGA ATGTTGGA	32761
918	10112	UGUCCUCU G UUGUCAUC	12380	GATGACAA GGCTAGCTACAACGA AGAGGACA	32762
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957	10073	ACCACGUG G UUCUCCG	12384	CGGAAGAA GGCTAGCTACAACGA CACGTGGT	32766
966	10064	UUCUCCG G UAGGGACC	12385	GGTCCCTA GGCTAGCTACAACGA CGGAAGAA	32767
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1004	10026	CAAAUGGC G UUGGCCAU	12389	ATGGCCAA GGCTAGCTACAACGA GCCATTTG	32771
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1298	9732	UUGAGGAA G UGGAGCGA	12423	TCGCTCCA GGCTAGCTACAACGA TTCCTCAA	32805
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1308	9722	GGAGCGAG G UGGCAAAG	12425	CTTTGCCA GGCTAGCTACAACGA CTCGCTCC	32807
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1396	9634	CUCAAACA G CCAGGUCC	12435	GGACCTGG GGCTAGCTACAACGA TGTTTGAG	32817
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1414	9616	GACUUUGG G UCCUUUCC	12437	GGAAAGGA GGCTAGCTACAACGA CCAAAGTC	32819
1428	9602	UCCCUUUU G UGAGUUUC	12438	GAAACTCA GGCTAGCTACAACGA AAAAGGGA	32820
1432	9598	UUUUGUGA G UUUCUCCA	12439	TGGAGAAA GGCTAGCTACAACGA TCACAAAA	32821
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1494	9536	GCUGGACG G CCAGGUUG	12442	CAACCTGG GGCTAGCTACAACGA CGTCCAGC	32824
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1534	9496	GACAACUU G UCCACUCC	12450	GGAGTGA GGCTAGCTACAACGA AAGTTGTC	32832
1578	9452	CCAUGACG G UUCUCCA	12451	TGGAAGAA GGCTAGCTACAACGA CGTCATGG	32833
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1593	9437	CAUCAGCA G CCGGGCGC	12453	GCGCCCGG GGCTAGCTACAACGA TGCTGATG	32835
1598	9432	GCAGCCGG G CGCAUCAC	12454	GTGATGCG GGCTAGCTACAACGA CCGGCTGC	32836
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1619	9411	ACAACUUU G UGACGAUA	12456	TATCGTGA GGCTAGCTACAACGA AAAGTTGT	32838
1629	9401	GACGAUAG G UGAGCUCA	12457	TGAGCTCA GGCTAGCTACAACGA CTATCGTC	32839
1633	9397	AUAGGUGA G CUCAAUGA	12458	TCATTGAG GGCTAGCTACAACGA TCACCTAT	32840
1644	9386	CAAUGAUG G CCCUGGCA	12459	TGCCAGGG GGCTAGCTACAACGA CATCATTTG	32841
1650	9380	UGGCCUG G CAAGACGC	12460	GCGTCTTG GGCTAGCTACAACGA CAGGGCCA	32842
1657	9373	GGCAAGAC G CCGAUGUU	12461	AACATCGG GGCTAGCTACAACGA GTCTTGCC	32843
1663	9367	ACGCCGAU G UUCCCCAU	12462	ATGGGGAA GGCTAGCTACAACGA ATCGGCGT	32844
1675	9355	CCCAUCAA G CAGCUCAA	12463	TTGAGCTG GGCTAGCTACAACGA TTGATGGG	32845
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1684	9346	CAGCUCAA G CACCUUAG	12465	CTAAGGTG GGCTAGCTACAACGA TTGAGCTG	32847
1692	9338	GCACCUUA G CUUCAUUU	12466	AAATGAAG GGCTAGCTACAACGA TAAGGTGC	32848
1706	9324	UUUUCCAA G UCAGCUCU	12467	AGAGCTGA GGCTAGCTACAACGA TTGGAAAA	32849
1710	9320	CCAAGUCA G CUCUCGUG	12468	CACGAGAG GGCTAGCTACAACGA TGACTTGG	32850
1716	9314	CAGCUCUC G UGAUGCGG	12469	CCGCATCA GGCTAGCTACAACGA GAGAGCTG	32851
1721	9309	CUCGUGAU G CGGGUGUC	12470	GACACCCG GGCTAGCTACAACGA ATCAGGAG	32852
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1727	9303	AUGCGGGU G UCCAGCC	12472	GGCTGGGA GGCTAGCTACAACGA ACCCGCAT	32854
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1737	9293	CCCAGCCA G CUGUGUCA	12474	TGACACAG GGCTAGCTACAACGA TGGCTGGG	32856
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1742	9288	CCAGCUGU G UCAUCAGC	12476	GCTGATGA GGCTAGCTACAACGA ACAGCTGG	32858
1749	9281	UGUCAUCA G CAUAGAUC	12477	GATCTATG GGCTAGCTACAACGA TGATGACA	32859
1760	9270	UAGAUCUU G CCCCCAGG	12478	CCTGGGGG GGCTAGCTACAACGA AAGATCTA	32860
1768	9262	GCCCCCAG G CCGGGUGC	12479	GCACCCGG GGCTAGCTACAACGA CTGGGGGC	32861
1773	9257	CAGGCCGG G UGCCAACU	12480	AGTTGGCA GGCTAGCTACAACGA CCGGCCTG	32862
1775	9255	GGCCGGGU G CCAACUUC	12481	GAAGTTGG GGCTAGCTACAACGA ACCCGGCC	32863
1786	9244	AACUUCAC G CAGGAUGU	12482	ACATCCTG GGCTAGCTACAACGA GTGAAGTT	32864
1793	9237	CGCAGGAU G UAACCCAG	12483	CTGGGTTA GGCTAGCTACAACGA ATCTGCG	32865
1801	9229	GUAACCCA G UUUUGGA	12484	TCCAAAAA GGCTAGCTACAACGA TGGGTTAC	32866
1811	9219	UUUUGGAG G CCAAGCC	12485	GGCTTGGG GGCTAGCTACAACGA CTCCAAAA	32867
1817	9213	AGGCCCAA G CCUCGAC	12486	GTCGAGGG GGCTAGCTACAACGA TTGGCCCT	32868
1838	9192	CCUCCUGA G UUCUUUCU	12487	AGAAAGAA GGCTAGCTACAACGA TCAGGAGG	32869
1852	9178	UCUCCCAA G CCAGUGGU	12488	ACCACTGG GGCTAGCTACAACGA TTGGAAGA	32870
1856	9174	CCAAGCCA G UGGUCUUC	12489	GAAGACCA GGCTAGCTACAACGA TGGCTTGG	32871
1859	9171	AGCCAGUG G UCUUCAUU	12490	AATGAAGA GGCTAGCTACAACGA CACTGGCT	32872
1881	9149	AACCCAGA G CCUCGAAC	12491	GTTCGAGG GGCTAGCTACAACGA TCTGGGTT	32873
1898	9132	UCCAGAAA G CGAGCUCC	12492	GGAGCTCG GGCTAGCTACAACGA TTTCTGGA	32874
1902	9128	GAAAGCGA G CUCOGAGC	12493	GCTCGGAG GGCTAGCTACAACGA TCGTTTC	32875
1909	9121	AGCUCCGA G CCAUGA	12494	TCATGTGG GGCTAGCTACAACGA TCGGAGCT	32876
1926	9104	ACCAAUG G CUCUGCUU	12495	AAGCAGAG GGCTAGCTACAACGA CATTTGGT	32877

1931	9099	AUGGCUCU G CUUCCCUU	12496	AAGGGAAG GGCTAGCTACAACGA AGAGCCAT	32878
1941	9089	UUCCCUUG G CCUUUCCG	12497	CGGAAAGG GGCTAGCTACAACGA CAAGGGAA	32879
1960	9070	CUCUCCGG G UUUUUUCU	12498	AGAAAAAA GGCTAGCTACAACGA CCGGAGAG	32880
1985	9045	CCCAUCAU G UUGUAAAU	12499	ATTTACAA GGCTAGCTACAACGA ATGATGGG	32881
1988	9042	AUCAUGUU G UAAAUACA	12500	TGCATTTA GGCTAGCTACAACGA AACATGAT	32882
1994	9036	UUGUAAAU G CAAGUGUG	12501	CACACTTG GGCTAGCTACAACGA ATTTACAA	32883
1998	9032	AAAUGCAA G UGUGACAU	12502	ATGTCACA GGCTAGCTACAACGA TTGCATT	32884
2000	9030	AUGCAAAGU G UGACAUUC	12503	GAATGTCA GGCTAGCTACAACGA ACTTGCA	32885
2014	9016	UUCCCCC G CAGAUGUG	12504	CACATCTG GGCTAGCTACAACGA GGGGGGAA	32886
2020	9010	CCGCAGAU G UGCCUCGC	12505	GCGAGGCA GGCTAGCTACAACGA ATCTGCGG	32887
2022	9008	GCAGAUGU G CCUCGCGC	12506	GCGCGAGG GGCTAGCTACAACGA ACATCTGC	32888
2027	9003	UGUGCCUC G CGCUCUC	12507	GAGGAGCG GGCTAGCTACAACGA GAGGCACA	32889
2029	9001	UGCCUCGC G CUCCUCAU	12508	ATGAGGAG GGCTAGCTACAACGA GCGAGGCA	32890
2070	8960	CUUCAACU G CUUCUCUG	12509	CAGAGAAG GGCTAGCTACAACGA AGTTGAAG	32891
2079	8951	CUUCUCUG G CGCUCUC	12510	GAGGAGCG GGCTAGCTACAACGA CAGAGAAG	32892
2081	8949	UCUCUGGC G CUCCUCCA	12511	TGGAGGAG GGCTAGCTACAACGA GCCAGAGA	32893
2098	8932	UUGAUUCU G CUCUCAA	12512	TTGAAGAG GGCTAGCTACAACGA AGAATCAA	32894
2112	8918	CAAAACUG G CACCCAAA	12513	TTTGGGTG GGCTAGCTACAACGA CATGTTTG	32895
2121	8909	CACCCAAA G CUGCAUUG	12514	CAATGCAG GGCTAGCTACAACGA TTTGGGTG	32896
2124	8906	CCAAAGCU G CAUUGCUG	12515	CAGCAATG GGCTAGCTACAACGA AGCTTTGG	32897
2129	8901	GCUGCAUU G CUGUUGAC	12516	GTCAACAG GGCTAGCTACAACGA AATGCAGC	32898
2132	8898	GCAUUGCU G UUGACCUU	12517	AAGGTCAA GGCTAGCTACAACGA AGCAATGC	32899
2162	8868	UCUCGAGA G CACAUCU	12518	AGAATGTG GGCTAGCTACAACGA TCTCGAGA	32900
2176	8854	UCUGGGAC G UUUUCUC	12519	GAGAAAAA GGCTAGCTACAACGA GTCCCGAG	32901
2187	8843	UUUCUCUG G CCAAAAAC	12520	GTTTTTGG GGCTAGCTACAACGA CAGAGAAA	32902
2196	8834	CCAAAAAC G CCCACAAC	12521	GTTGTGGG GGCTAGCTACAACGA GTTTTTGG	32903
2207	8823	CACAACCA G UUGGUGGU	12522	ACCACCAA GGCTAGCTACAACGA TGGTTGTG	32904
2211	8819	ACCAGUUG G UGGUCUCA	12523	TGAGACCA GGCTAGCTACAACGA CAACTGGT	32905
2214	8816	AGUUGGUG G UCUCAUUG	12524	CAATGAGA GGCTAGCTACAACGA CACCAACT	32906
2224	8806	CUCAUUGA G CACGUACU	12525	AGTACGTG GGCTAGCTACAACGA TCAATGAG	32907
2228	8802	UUGAGCAC G UACUUCAC	12526	GTGAAGTA GGCTAGCTACAACGA GTGCTCAA	32908
2245	8785	UCCUUCUG G CGGUUCAG	12527	CTGAACCG GGCTAGCTACAACGA CAGAAGGA	32909
2248	8782	UUCUGGCG G UUCAGGAG	12528	TCCTGAA GGCTAGCTACAACGA CGCCAGAA	32910
2256	8774	GUUCAGGA G CUUUCGUG	12529	CACGAAAG GGCTAGCTACAACGA TCCTGAAC	32911
2262	8768	GAGCUUUC G UGUCCACC	12530	GGTGGACA GGCTAGCTACAACGA GAAAGCTC	32912
2264	8766	GCUUUCGU G UCCACCUU	12531	AAGGTGGA GGCTAGCTACAACGA ACGAAGC	32913
2287	8743	GAACACUC G CUGCUGCC	12532	GGCAGCAG GGCTAGCTACAACGA GAGTGTTC	32914
2290	8740	CACUCGCU G CUGCCCGA	12533	TCGGGCAG GGCTAGCTACAACGA AGCGAGTG	32915
2293	8737	UCGUGCU G CCCGAAGG	12534	CCTTCGGG GGCTAGCTACAACGA AGCAGCGA	32916
2304	8726	CGAAGGGA G UAGUGUCA	12535	TGACACTA GGCTAGCTACAACGA TCCCTTCG	32917
2307	8723	AGGGAGUA G UGUCAGUC	12536	GACTGACA GGCTAGCTACAACGA TACTCCCT	32918
2309	8721	GGAGUAGU G UCAGUCAU	12537	ATGACTGA GGCTAGCTACAACGA ACTACTCC	32919
2313	8717	UAGUGUCA G UCAUGGCC	12538	GGCCATGA GGCTAGCTACAACGA TGACACTA	32920
2319	8711	CAGUCAUG G CCAUGGUG	12539	CACCATGG GGCTAGCTACAACGA CATGACTG	32921
2325	8705	UGGCAUG G UGGUAAAC	12540	TGTTATCA GGCTAGCTACAACGA CATGGCCA	32922
2328	8702	CCAUGGUG G UAACAUUC	12541	GAATGTTA GGCTAGCTACAACGA CACCATGG	32923
2337	8693	UAACAUUC G UGAUGGUG	12542	CACCATCA GGCTAGCTACAACGA GAATGTTA	32924
2343	8687	UCGUGAUG G UGUCCCAU	12543	ATGGGACA GGCTAGCTACAACGA CATCACGA	32925
2345	8685	GUGAUGGU G UCCCAUGG	12544	CCATGGGA GGCTAGCTACAACGA ACCATCAC	32926
2353	8677	GUCCCAUG G UUUUGAGA	12545	TCTCAAAA GGCTAGCTACAACGA CATGGGAC	32927
2365	8665	UGAGAGGA G CCUGACCA	12546	TGGTCAGG GGCTAGCTACAACGA TCCTCTCA	32928
2386	8644	AUUGACCA G CGAACUGG	12547	CCAGTTCC GGCTAGCTACAACGA TGGTCAAT	32929
2394	8636	GCGAACUG G CGGAGCCU	12548	AGGCTCCG GGCTAGCTACAACGA CAGTTCCG	32930
2399	8631	CUGGCGGA G CCUGUGGG	12549	CCACAGG GGCTAGCTACAACGA TCCGCCAG	32931
2403	8627	CGGAGCCU G UGGGCUUC	12550	GAAGCCCA GGCTAGCTACAACGA AGGCTCCG	32932
2407	8623	GCCUGUGG G CUUCACAU	12551	ATGTGAAG GGCTAGCTACAACGA CCACAGGC	32933
2423	8607	UCAUAACU G CCGUGAUA	12552	TATCACGG GGCTAGCTACAACGA AGTTATGA	32934
2426	8604	UAACUGCC G UGAUAGUU	12553	AACTATCA GGCTAGCTACAACGA GGCAGTTA	32935
2432	8598	CCGUGAUA G UUCCAGGU	12554	ACCTGGAA GGCTAGCTACAACGA TATCACGG	32936
2439	8591	AGUUCAG G UUCUAUUA	12555	ATATAGAA GGCTAGCTACAACGA CTGGAAC	32937
2450	8580	CUAUAUGG G UGUUUCUC	12556	GAGAACCA GGCTAGCTACAACGA CCATATAG	32938
2453	8577	UAUGGGUG G UUCUCAUC	12557	GATGAGAA GGCTAGCTACAACGA CACCCATA	32939
2462	8568	UUCUCAUC G UGUGCCA	12558	TGGCACCA GGCTAGCTACAACGA GATGAGAA	32940

2465	8565	UCAUCGUG G UGCCACGU	12559	ACGTGGCA GGCTAGCTACAACGA CACGATGA	32941
2467	8563	AUCGUGGU G CCACGUCG	12560	CGACGTGG GGCTAGCTACAACGA ACCACGAT	32942
2472	8558	GGUGCCAC G UCGAACUG	12561	CAGTTCGA GGCTAGCTACAACGA GTGGCACC	32943
2480	8550	GUCGAACU G UACUCACG	12562	CGTGAGTA GGCTAGCTACAACGA AGTTCGAC	32944
2488	8542	GUACUCAC G CCUGAGUC	12563	GACTCAGG GGCTAGCTACAACGA GTGAGTAC	32945
2494	8536	ACGCCUGA G UCGUCAA	12564	TTGAACGA GGCTAGCTACAACGA TCAGGCGT	32946
2497	8533	CCUGAGUC G UUCAUCC	12565	GGATTGAA GGCTAGCTACAACGA GACTCAGG	32947
2507	8523	UCAAUCCU G UUCUUGAU	12566	ATCAAGAA GGCTAGCTACAACGA AGGATTGA	32948
2523	8507	UUUUACUG G UGUCUGAG	12567	CTCAGACA GGCTAGCTACAACGA CAGTAAAA	32949
2525	8505	UUACUGGU G UCUGAGUU	12568	AACTCAGA GGCTAGCTACAACGA ACCAGTAA	32950
2531	8499	GUGUCUGA G UUGAGCAG	12569	CTGCTCAA GGCTAGCTACAACGA TCAGACAC	32951
2536	8494	UGAGUUGA G CAGGGGUU	12570	AACCCCTG GGCTAGCTACAACGA TCAACTCA	32952
2542	8488	GAGCAGGG G UUUUCCCA	12571	TGGGAAAA GGCTAGCTACAACGA CCCTGCTC	32953
2553	8477	UUCCCACC G CCUGGUU	12572	AACCAAGG GGCTAGCTACAACGA GGTGGGAA	32954
2559	8471	CCGCCUG G UUCCACUU	12573	AAGTGGAA GGCTAGCTACAACGA CAGGCGCG	32955
2573	8457	CUUCCCAA G UUUACAUC	12574	GATGTAAA GGCTAGCTACAACGA TTGGGAAG	32956
2588	8442	UCUUCUC G UAUUGGGG	12575	CCCCAATA GGCTAGCTACAACGA GAGGAAGA	32957
2596	8434	GUAUUGGG G UCCCUUCC	12576	GGAAGGGA GGCTAGCTACAACGA CCAATAC	32958
2607	8423	CCUUCAG G UCCUUUUU	12577	AAAAAGGA GGCTAGCTACAACGA CTGGAAGG	32959
2632	8398	UCCUAGGA G CACCUGGC	12578	GCCAGGTG GGCTAGCTACAACGA TCCTAGGA	32960
2639	8391	AGCACCUG G CUGGUCAU	12579	ATGACCAG GGCTAGCTACAACGA CAGGTGCT	32961
2643	8387	CCUGGCUG G UCAUUAUC	12580	GAATATGA GGCTAGCTACAACGA CAGCCAGG	32962
2659	8371	CACUGAAU G UACCACAU	12581	ATGTGGTA GGCTAGCTACAACGA ATTCACTG	32963
2669	8361	ACCACAUU G CCUGAAGC	12582	GCTTCAGG GGCTAGCTACAACGA AATGTGGT	32964
2676	8354	UGCCUGAA G CUCGACUC	12583	GAGTCGAG GGCTAGCTACAACGA TTCGGCA	32965
2699	8331	UACAUCUC G UGCGUGGA	12584	TCCACGCA GGCTAGCTACAACGA GAGATGTA	32966
2701	8329	CAUCUCGU G CGUGGAAU	12585	ATTCCACG GGCTAGCTACAACGA ACGAGATG	32967
2703	8327	UCUCGUGC G UGGAUUUC	12586	GAATTCCA GGCTAGCTACAACGA GCACGAGA	32968
2713	8317	GGAAUUC G UGAGAGUG	12587	CACTCTCA GGCTAGCTACAACGA GGAATTCC	32969
2719	8311	CCGUGAGA G UGGGUUUC	12588	GAAACCCA GGCTAGCTACAACGA TCTCACGG	32970
2723	8307	GAGAGUGG G UUUCUGAC	12589	GTCAGAAA GGCTAGCTACAACGA CCACTCTC	32971
2734	8296	UCUGACCA G UCCCCCC	12590	GGGGGGGA GGCTAGCTACAACGA TGGTCAGA	32972
2750	8280	CCAUAACG G CGUUGGAG	12591	GCTCAACG GGCTAGCTACAACGA CGGTATGG	32973
2752	8278	AUACCGGC G UUGGAGCA	12592	TGCTCCAA GGCTAGCTACAACGA GCCGGTAT	32974
2758	8272	GCGUUGGA G CAGCUCCA	12593	TGGAGCTG GGCTAGCTACAACGA TCCAACGC	32975
2761	8269	UUGGAGCA G CUCCAUCU	12594	AGATGGAG GGCTAGCTACAACGA TGCTCCAA	32976
2785	8245	GACUUUCG G CAUGUAGG	12595	CCTACATG GGCTAGCTACAACGA CGAAAGTC	32977
2789	8241	UUCGGCAU G UAGGGGCA	12596	TGCCCTTA GGCTAGCTACAACGA ATGCCGAA	32978
2795	8235	AUGUAGGG G CAGAGCAC	12597	GTGCTCTG GGCTAGCTACAACGA CCCTACAT	32979
2800	8230	GGGGCAGA G CACCUUCA	12598	TGAAGGTG GGCTAGCTACAACGA TCTGCCCC	32980
2810	8220	ACCUUCAC G CAAAAUUC	12599	GAATTTTG GGCTAGCTACAACGA GTGAAGGT	32981
2824	8206	UUCCCUUG G CCCUCGGU	12600	ACCGAGGG GGCTAGCTACAACGA CAGAGGAA	32982
2831	8199	GGCCUCUG G UGCAGCCA	12601	TGGCTGCA GGCTAGCTACAACGA CGAGGGCC	32983
2833	8197	CCCUUGGU G CAGCCAGU	12602	ACTGGCTG GGCTAGCTACAACGA ACCGAGGG	32984
2836	8194	UCGGUGCA G CCAGUCCU	12603	AGGACTGG GGCTAGCTACAACGA TGCACCGA	32985
2840	8190	UGCAGCCA G UCCUAAC	12604	GTTGAGGA GGCTAGCTACAACGA TGGCTGCA	32986
2868	8162	CCCGAAUC G UCCUAUGC	12605	GCATAGGA GGCTAGCTACAACGA GATTGCGG	32987
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2889	8141	CAACCUCA G CACUUGAC	12607	GTCAGTGG GGCTAGCTACAACGA TGAGGTTG	32989
2912	8118	UCUCCGAU G UCACAAAG	12608	CTTTGTGA GGCTAGCTACAACGA ATCGGAGA	32990
2925	8105	AAAGGAGG G UGUCACAA	12609	TTGTGACA GGCTAGCTACAACGA CCTCCTTT	32991
2927	8103	AGGAGGGU G UCACAACA	12610	TGTTGTGA GGCTAGCTACAACGA ACCCTCCT	32992
2944	8086	CUCAGAAG G UCUGUAGA	12611	TCTACAGA GGCTAGCTACAACGA CTTCTGAG	32993
2948	8082	GAAGGUCU G UAGAACAC	12612	GTGTTCTA GGCTAGCTACAACGA AGACCTTC	32994
2976	8054	UCUUCAUG G UGACAAUG	12613	CATTGTCA GGCTAGCTACAACGA CATGAAGA	32995
2984	8046	GUGACAAU G UUCAUCC	12614	GGATGGAA GGCTAGCTACAACGA ATTGTCAC	32996
3001	8029	AUAACUUU G CACUAGUU	12615	AACTAGTG GGCTAGCTACAACGA AAAGTTAT	32997
3007	8023	UUGCACUA G UUGGGGCU	12616	AGCCCCAA GGCTAGCTACAACGA TGTGCAAT	32998
3013	8017	UAGUUGGG G CUCUUAU	12617	ATGAAGAG GGCTAGCTACAACGA CCGAATA	32999
3022	8008	CUCUUAU G UCCGGGAC	12618	GTCCCGGA GGCTAGCTACAACGA ATGAAGAG	33000
3032	7998	CCGGGACC G CCCUUGU	12619	ACAAAGGG GGCTAGCTACAACGA GGTCCCGG	33001
3039	7991	CGCCCUU G UGUACCCU	12620	AGGGTACA GGCTAGCTACAACGA AAAGGGCG	33002
3041	7989	CCCUUGU G UACCCUCU	12621	AGAGGGTA GGCTAGCTACAACGA ACAAGGG	33003

3072	7958	UUUUUUGG G UUGCCAUA	12622	TATGGCAA GGCTAGCTACAACGA CCAAAAAA	33004
3075	7955	UUUGGGUU G CCAUAUAG	12623	CTATATGG GGCTAGCTACAACGA AACCCAAA	33005
3083	7947	GCCAUUA G UAACACCA	12624	TGGTGTTA GGCTAGCTACAACGA TATATGGC	33006
3095	7935	CACCAACC G CCUCUUC	12625	GGAAGAGG GGCTAGCTACAACGA GGTGGGTG	33007
3113	7917	CAUCCAAG G UCAAUCAC	12626	GTGATTGA GGCTAGCTACAACGA CTTGGATG	33008
3133	7897	UCCGACCG G UUCGAGAA	12627	TTCTCGAA GGCTAGCTACAACGA CGGTCGGA	33009
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3157	7873	UUCGACCA G CCAUCUCA	12629	TGAGATGG GGCTAGCTACAACGA TGGTCGAA	33011
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3174	7856	GUUUUGCU G UGCCCCUA	12632	TAGGGGCA GGCTAGCTACAACGA AGCAAAAC	33014
3176	7854	UUUGCUGU G CCCUAGA	12633	TCTAGGGG GGCTAGCTACAACGA ACAGCAAA	33015
3193	7837	GACUGGAU G CCCUCCAG	12634	CTGGAGGG GGCTAGCTACAACGA ATCCAGTC	33016
3201	7829	GCCCUCCA G UGACAUUG	12635	CAATGTCA GGCTAGCTACAACGA TGGAGGGC	33017
3209	7821	GUGACAUU G CCUUCUUU	12636	AAAGAAGG GGCTAGCTACAACGA AATGTCAC	33018
3222	7808	CUUUCUG G CGUGUUUU	12637	AAAACACG GGCTAGCTACAACGA CAGGAAAG	33019
3224	7806	UUCUGGC G UGUUUUGC	12638	GCAAAACA GGCTAGCTACAACGA GCCAGGAA	33020
3226	7804	CCUGGCGU G UUUUGCCG	12639	CGGCAAAA GGCTAGCTACAACGA ACGCCAGG	33021
3231	7799	CGUGUUUU G CCGUGAG	12640	CTCAGCGG GGCTAGCTACAACGA AAAACACG	33022
3234	7796	GUUUUGCC G CUGAGCGA	12641	TCGCTCAG GGCTAGCTACAACGA GGCAAAAC	33023
3239	7791	GCCGCUGA G CGAUCGAC	12642	GTCGATCG GGCTAGCTACAACGA TCAGCGGG	33024
3258	7772	CGAUGAUG G CCUCUUUG	12643	CAAAGAGG GGCTAGCTACAACGA CATCATCG	33025
3266	7764	GCCUCUUU G CGGUACCU	12644	AGGTACCG GGCTAGCTACAACGA AAGAGGCG	33026
3269	7761	UCUUUGCG G UACCUAGU	12645	ACTAGGTA GGCTAGCTACAACGA CGCAAAGA	33027
3276	7754	GGUACCUA G UGAACUCU	12646	AGAGTTCA GGCTAGCTACAACGA TAGGTACC	33028
3291	7739	CUUCUUUU G UCAUCUGG	12647	CCAGATGA GGCTAGCTACAACGA AAAAGAAG	33029
3299	7731	GUCAUCUG G UUGAGUCU	12648	AGACTCAA GGCTAGCTACAACGA CAGATGAC	33030
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3393	7637	GUGUCCAU G UUAUGGAU	12659	ATCCATAA GGCTAGCTACAACGA ATGGACAC	33041
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3431	7599	CGCAUGAU G UGGCAGAG	12661	CTCTGCCA GGCTAGCTACAACGA ATCATCG	33043
3434	7596	AUGAUGUG G CAGAGUCC	12662	GGACTCTG GGCTAGCTACAACGA CACATCAT	33044
3439	7591	GUGGCAGA G UCCGAUGG	12663	CCATCGGA GGCTAGCTACAACGA TCTGCCAC	33045
3447	7583	GUCCGAUG G CAGUUGUU	12664	AACAACTG GGCTAGCTACAACGA CATCGGAC	33046
3450	7580	CGAUGGCA G UUGUGCG	12665	CGCAACAA GGCTAGCTACAACGA TGCCATCG	33047
3453	7577	UGGAGUUU G UUGCGUUC	12666	GAACGCAA GGCTAGCTACAACGA AACTGCCA	33048
3456	7574	CAGUUGUU G CGUUCCAA	12667	TTGGAACG GGCTAGCTACAACGA AACAACCT	33049
3458	7572	GUUGUUGC G UUCCAAAC	12668	GTTTGGAA GGCTAGCTACAACGA GCAACAAC	33050
3470	7560	CAAACAGA G CUUGCUC	12669	GGAGCAAG GGCTAGCTACAACGA TCTGTTTG	33051
3474	7556	CAGAGCUU G CUCCAUUC	12670	GAATGGAG GGCTAGCTACAACGA AAGCTCTG	33052
3490	7540	CUCCCAA G CGUCACCG	12671	CGGTGACG GGCTAGCTACAACGA TTTGGGAG	33053
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3498	7532	GCGUCACC G CUGCGGCC	12673	GGCCGCGG GGCTAGCTACAACGA GGTGACGC	33055
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3507	7523	CUGCGGCC G UGAUCAA	12676	TTTGATCA GGCTAGCTACAACGA GGCCGCGC	33058
3522	7508	AAAUUCCG G CUUCUCGU	12677	ACGAGAAG GGCTAGCTACAACGA CGGAATTT	33059
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3548	7482	ACAGACGG G UUCACUAC	12680	GTAGTGAA GGCTAGCTACAACGA CCGTCTGT	33062
3561	7469	CUACUACU G CAGCUAGA	12681	TCTAGCTG GGCTAGCTACAACGA AGTAGTAG	33063
3564	7466	CUACUGCA G CUAGAGAC	12682	GTCTCTAG GGCTAGCTACAACGA TGCACTAG	33064
3583	7447	CAAGAUCA G CAUGAUCU	12683	AGATCATG GGCTAGCTACAACGA TGATCTTG	33065
3592	7438	CAUGAUCU G UCCAACUU	12684	AAGTTGGA GGCTAGCTACAACGA AGATCATG	33066

3607	7423	UUUCUUCU G CAUGAUGG	12685	CCATCATG GGCTAGCTACAACGA AGAAGAAA	33067
3616	7414	CAUGAUGG G UGUGGUGC	12686	GCACCACA GGCTAGCTACAACGA CCATCATG	33068
3618	7412	UGAUGGGU G UGUGGCGC	12687	GCGCACC A GGCTAGCTACAACGA ACCCATCA	33069
3621	7409	UGGGUGUG G UGCGCUCU	12688	AGAGCGCA GGCTAGCTACAACGA CACACCCA	33070
3623	7407	GGUGUGGU G CGCUCUAA	12689	TTAGAGCG GGCTAGCTACAACGA ACCACACC	33071
3625	7405	UGUGGUGC G CUCUAAU	12690	AATTAGAG GGCTAGCTACAACGA GCACCACA	33072
3641	7389	UCUGGGAC G UCCGUGGC	12691	GCCACGGA GGCTAGCTACAACGA GTCCAGCA	33073
3645	7385	GGACGUCC G UGGCCACG	12692	CGTGGCCA GGCTAGCTACAACGA GGACGTCC	33074
3648	7382	CGUCCGUG G CCACGAUG	12693	CATCGTGG GGCTAGCTACAACGA CACGGACG	33075
3656	7374	GCCACGAU G CCAUCCAC	12694	GTGGATGG GGCTAGCTACAACGA ATCGTGGC	33076
3669	7361	CCACUACA G CGUUCUUC	12695	GAAGAACG GGCTAGCTACAACGA TGTAAGTG	33077
3671	7359	ACUACAGC G UUCUUCAU	12696	ATGAAGAA GGCTAGCTACAACGA GCTGTAGT	33078
3687	7343	UGAUUCCG G CCGCUGUC	12697	GACAGCGG GGCTAGCTACAACGA CGGAATCA	33079
3690	7340	UUCCGGCC G CUGUCCGC	12698	GCGGACAG GGCTAGCTACAACGA GGCCGGAA	33080
3693	7337	CGGCCGCU G UCCGCCGC	12699	GCGGCGGA GGCTAGCTACAACGA AGCGGCCG	33081
3697	7333	CGCUGUCC G CCGCUGGG	12700	CCCAGCGG GGCTAGCTACAACGA GGACGCG	33082
3700	7330	UGUCCGCC G CUGGGCUG	12701	CAGCCGAG GGCTAGCTACAACGA GGCAGACA	33083
3705	7325	GCCGCUGG G CUGAGCGC	12702	GCGCTCAG GGCTAGCTACAACGA CCAGCGGC	33084
3710	7320	UGGGCUGA G CGCAUUGC	12703	GCAATGCG GGCTAGCTACAACGA TCAGCCCA	33085
3712	7318	GGCUGAGC G CAUUGCCU	12704	AGGCAATG GGCTAGCTACAACGA GCTCAGCC	33086
3717	7313	AGCGCAU G CCUCAGCU	12705	AGCTGAGG GGCTAGCTACAACGA AATGCGCT	33087
3723	7307	UUGCCUCA G CUUGCCAA	12706	TTGGCAAG GGCTAGCTACAACGA TGAGGCAA	33088
3727	7303	CUCAGCU G CCAACCGG	12707	CCGTTTGG GGCTAGCTACAACGA AAGCTGAG	33089
3743	7287	GGAACCAU G UAGGCAUA	12708	TATGCTTA GGCTAGCTACAACGA ATGGTTCC	33090
3747	7283	CCAUGUAG G CAUAGUGG	12709	CCACTATG GGCTAGCTACAACGA CTCATATG	33091
3752	7278	UAGGCAUA G UGGCAAAA	12710	TTTTGCCA GGCTAGCTACAACGA TATGCTTA	33092
3755	7275	GCAUAGUG G CAAAAAAG	12711	CTTTTTTG GGCTAGCTACAACGA CACTATGC	33093
3766	7264	AAAAAGGA G UGUUGCCG	12712	CGGCAACA GGCTAGCTACAACGA TCCTTTTT	33094
3768	7262	AAAGGAGU G UUGCCGCU	12713	AGCGGCAA GGCTAGCTACAACGA ACTCCTTT	33095
3771	7259	GGAGUGUU G CCGCUGUU	12714	AACAGCGG GGCTAGCTACAACGA AACACTCC	33096
3774	7256	GUGUUGCC G CUGUUACC	12715	GGTAACAG GGCTAGCTACAACGA GGCAACAC	33097
3777	7253	UUGCCGCU G UUACCGUA	12716	TACGGTAA GGCTAGCTACAACGA AGCGGCAA	33098
3783	7247	CUGUUACC G UAACGGUG	12717	CACCGTTA GGCTAGCTACAACGA GGTAACAG	33099
3789	7241	CCGUAAAC G UGAGGGUG	12718	CACCTCA GGCTAGCTACAACGA GGTACGG	33100
3795	7235	CGGUGAGG G UGACUUGU	12719	ACAAGTCA GGCTAGCTACAACGA CCTACCG	33101
3802	7228	GGUGACUU G UCCCCAGC	12720	GCTGGGGA GGCTAGCTACAACGA AAGTCACC	33102
3809	7221	UGUCCCA G CAUCCGGC	12721	GCCGGATG GGCTAGCTACAACGA TGGGGACA	33103
3816	7214	AGCAUCCG G CUGCUAGC	12722	GCTAGCAG GGCTAGCTACAACGA CGGATGCT	33104
3819	7211	AUCCGGCU G CUAGCAGG	12723	CCTGCTAG GGCTAGCTACAACGA AGCCGGAT	33105
3823	7207	GGCUGCUA G CAGGAGAG	12724	CTCTCTG GGCTAGCTACAACGA TAGCAGCC	33106
3831	7199	GCAGGAGA G CCGACACU	12725	AGTGTCGG GGCTAGCTACAACGA TCTCTGCG	33107
3860	7170	AAGGGGAA G CCUCGCGC	12726	GCGCGAGG GGCTAGCTACAACGA TTCCCTTT	33108
3865	7165	GAAGCCUC G CGCGAGUG	12727	CACTCGCG GGCTAGCTACAACGA GAGGCTTC	33109
3867	7163	AGCCUCGC G CGAGUGUG	12728	CACACTCG GGCTAGCTACAACGA GCGAGGCT	33110
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3873	7157	GCGCGAGU G UGAAUAGU	12730	ACTATTCA GGCTAGCTACAACGA ACTCGCGC	33112
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3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGTG GGCTAGCTACAACGA ACTATTCA	33114
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3896	7134	GCCUGAAC G UUUAUUGA	12734	TCAATAAA GGCTAGCTACAACGA GTTCAGGC	33116
3906	7124	UUAUUGAG G UCAUUGAG	12735	CTCATTTA GGCTAGCTACAACGA CTCATAAA	33117
3915	7115	UCAUUGAG G UGUUGAUG	12736	CATCAACA GGCTAGCTACAACGA CTCATTGA	33118
3917	7113	AAUGAGGU G UUGAUGUA	12737	TACATCAA GGCTAGCTACAACGA ACCTCATT	33119
3923	7107	GUGUUGAU G UAAUCUGA	12738	TCAGATTA GGCTAGCTACAACGA ATCAACAC	33120
3933	7097	AAUCUGAC G UGAUCAA	12739	TTTGATCA GGCTAGCTACAACGA GTCAGATT	33121
3943	7087	GAUCAAAU G CUUAGCA	12740	TGCTAAAG GGCTAGCTACAACGA ATTGATC	33122
3949	7081	AUGCUUUA G CAGUGGAG	12741	CTCCACTG GGCTAGCTACAACGA TAAAGCAT	33123
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3957	7073	GCAGUGGA G UGAGGACC	12743	GGTCTCA GGCTAGCTACAACGA TCCACTGC	33125
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAACAG GGCTAGCTACAACGA AGCGTCTCA	33126
3969	7061	GGACCGCU G UUGUCACA	12745	TGTGACAA GGCTAGCTACAACGA AGCGTCTC	33127
3972	7058	CCGCUGUU G UCACAGCG	12746	CGCTGTGA GGCTAGCTACAACGA AACAGCGG	33128
3978	7052	UUGUCACA G CGUACAGU	12747	ACTGTACG GGCTAGCTACAACGA TGTGACAA	33129

3980	7050	GUCACAGC G UACAGUGA	12748	TCACTGTA GGCTAGCTACAACGA GCTGTGAC	33130
3985	7045	AGCGUACA G UGACCAGG	12749	CCTGGTCA GGCTAGCTACAACGA TGTACGCT	33131
3993	7037	GUGACCAG G CUGUUGCC	12750	GGCAACAG GGCTAGCTACAACGA CTGGTCAC	33132
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3999	7031	AGGCUGUU G CCGCCUC	12752	GAGGCCGG GGCTAGCTACAACGA AACAGCCT	33134
4003	7027	UGUUGCCG G CCUCAAGU	12753	ACTTGAGG GGCTAGCTACAACGA CGGCAACA	33135
4010	7020	GGCCUCAA G UCCAAAAG	12754	CTTTTGGA GGCTAGCTACAACGA TTGAGGCC	33136
4031	6999	UCUCCCAU G CUGAAAUU	12755	AATTTTCA GGCTAGCTACAACGA ATGGGAGA	33137
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4073	6957	AACAAACU G CUUAUGUC	12757	GACATAAG GGCTAGCTACAACGA AGTTTGT	33139
4079	6951	CUGCUUUAU G UCACUCUU	12758	AAGAGTGA GGCTAGCTACAACGA ATAAGCAG	33140
4089	6941	CACUCUUG G UCUUAUCU	12759	AGATAAGA GGCTAGCTACAACGA CAAGAGTG	33141
4099	6931	CUUAUCUA G CCAACCCA	12760	TGGGTTGG GGCTAGCTACAACGA TAGATAAG	33142
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4116	6914	UCUCGUUG G CUGCCACU	12762	AGTGGCAG GGCTAGCTACAACGA CAACGAGA	33144
4119	6911	CGUUGGCU G CCACUGCG	12763	CGCAGTGG GGCTAGCTACAACGA AGCCAACG	33145
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4127	6903	GCCACUGC G CUCACAAG	12765	CTTGTGAG GGCTAGCTACAACGA GCAGTGGC	33147
4137	6893	UCACAAGG G UCAUGACA	12766	TGTCATGA GGCTAGCTACAACGA CCTTGTGA	33148
4161	6869	GGAAACAG G CUAGCUGG	12767	CCAGCTAG GGCTAGCTACAACGA CGTGTTC	33149
4165	6865	CACGGCUA G CUGGUUGU	12768	ACAACCAG GGCTAGCTACAACGA TAGCCGTG	33150
4169	6861	GCUAGCUG G UUGUCUGU	12769	ACAGACAA GGCTAGCTACAACGA CAGCTAGC	33151
4172	6858	AGCUGGUU G UCUGUCUG	12770	CAGACAGA GGCTAGCTACAACGA AACCAGCT	33152
4176	6854	GGUUGUCU G UCUGCGAA	12771	TTCGCAGA GGCTAGCTACAACGA AGACAACC	33153
4180	6850	GUCUGUCU G CGAACGUU	12772	AACGTTTC GGCTAGCTACAACGA AGACAGAC	33154
4186	6844	GUGCGAAC G UUGCUUCU	12773	AGAAGCAA GGCTAGCTACAACGA GTTCGCAG	33155
4189	6841	CGAACGUU G CUUCUCUG	12774	CAGAGAAG GGCTAGCTACAACGA AACGTTTC	33156
4198	6832	CUUCUCUG G CUCAGGAA	12775	TTCTGTAG GGCTAGCTACAACGA CAGAGAAG	33157
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4257	6773	CGAUCUUC G UUCUGGGA	12780	TCCAGGAA GGCTAGCTACAACGA GAAGATCG	33162
4272	6758	GAACUUCA G CCAUCCAA	12781	TTGGATGG GGCTAGCTACAACGA TGAAGTTC	33163
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4345	6685	CUUCCGCU G CAUGAGGA	12788	TCCTCATG GGCTAGCTACAACGA AGCGGAAG	33170
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4389	6641	UCAUAAG G CAAUCAAG	12790	CTTGATTG GGCTAGCTACAACGA CTTATTGA	33172
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4413	6617	UCUGAAGA G CAUCUGGC	12793	GCCAGATG GGCTAGCTACAACGA TTTTCAGA	33175
4420	6610	AGCAUCUG G CAGUUCU	12794	AGGAACTG GGCTAGCTACAACGA CAGATGCT	33176
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4464	6566	CUUUCUCU G CAGUGGCC	12799	GGCCACTG GGCTAGCTACAACGA AGAGAAAG	33181
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4470	6560	CUGCAGUG G CCACAACG	12801	CGTTGTGG GGCTAGCTACAACGA CACTGCAG	33183
4478	6552	GCCACAAC G UACAUGGU	12802	ACCATGTA GGCTAGCTACAACGA GTTGTGGC	33184
4485	6545	CGUACAUG G UGUCAAGU	12803	ACTTGACA GGCTAGCTACAACGA CATGTACG	33185
4487	6543	UACAUGGU G UCAAGUGC	12804	GCACTTGA GGCTAGCTACAACGA ACCATGTA	33186
4492	6538	GGUGUCAA G UGCUUCCC	12805	GGGAAGCA GGCTAGCTACAACGA TTGACACC	33187
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4575	6455	UUCCCGAG G CGAAGUCC	12813	GGACTTCG	GGCTAGCTACAACGA CTCGGGAA	33195
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4636	6394	AAUCCAGC G CGGCCUCA	12823	TGAGGCCG	GGCTAGCTACAACGA GCTGGATT	33205
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4685	6345	UCCACUUC G UUGUUGUC	12827	GACAACAA	GGCTAGCTACAACGA GAAGTGA	33209
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4691	6339	UCGUUGUU G UCUUCUAA	12829	TTAGAAGA	GGCTAGCTACAACGA AACCAACGA	33211
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4706	6324	AAAUAUGU G UUGUCCU	12831	AGGACAAA	GGCTAGCTACAACGA ACAATTTT	33213
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4727	6303	CCAUCAAA G CACCACCU	12833	AGGTGGTG	GGCTAGCTACAACGA TTTGATGG	33215
4739	6291	CACCUCGG G UCGUGGUA	12834	TACCACGA	GGCTAGCTACAACGA CGGAGGTG	33216
4742	6288	CUCCGGUC G UGGUAUGA	12835	TCATACCA	GGCTAGCTACAACGA GACCGGAG	33217
4745	6285	CGGUCGUG G UAUACAC	12836	TGTGCATA	GGCTAGCTACAACGA CACGACCG	33218
4758	6272	ACACUCCA G CCGCUGCA	12837	TGCAGCGG	GGCTAGCTACAACGA TGGAGTGT	33219
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4797	6233	GCAGAUUC G CAGUCCUC	12844	GAGGACTG	GGCTAGCTACAACGA AGATCTGC	33226
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4820	6210	UCCAGAAA G UUUUUUCU	12847	AGAAAAAA	GGCTAGCTACAACGA TTTCTGGA	33229
4843	6187	UCCUCUGA G CCGGUAUU	12848	AATACCGG	GGCTAGCTACAACGA TCAGAGGA	33230
4847	6183	CUGAGCCG G UAUUCCCC	12849	GGGGAATA	GGCTAGCTACAACGA CGGCTCAG	33231
4863	6167	CAUCCAUG G UAUUAUCC	12850	GGTATATA	GGCTAGCTACAACGA CATGGATG	33232
4879	6151	CUUCUCAC G CUCUGGUU	12851	AACCAGAG	GGCTAGCTACAACGA GTGAGAAG	33233
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4889	6141	UCUGGUUG G UAGAAUUG	12853	CAATTCTA	GGCTAGCTACAACGA CAACCGA	33235
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4915	6115	UCCGUUUG G CAUGUUGA	12857	TCAACATG	GGCTAGCTACAACGA CAAACGGA	33239
4919	6111	UUUGGCAU G UUGAUGUU	12858	AACATCAA	GGCTAGCTACAACGA ATGCCAAA	33240
4925	6105	AUGUUGAU G UUGUCCAG	12859	CTGGACAA	GGCTAGCTACAACGA ATCAACAT	33241
4928	6102	UUGAUGUU G UCCAGCAU	12860	ATGCTGGA	GGCTAGCTACAACGA AACATCAA	33242
4933	6097	GUUGUCCA G CAUGAUUC	12861	GAATCATG	GGCTAGCTACAACGA TGGACAAC	33243
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4944	6086	UGAUUCGU G CCUCAGUC	12863	GACTGAGG	GGCTAGCTACAACGA ACGAATCA	33245
4950	6080	GUGCCUCA G UCCAAUGG	12864	CCATTGGA	GGCTAGCTACAACGA TGAGGCAC	33246
4959	6071	UCCAAUGG G CGAAGUUC	12865	GAACTTCG	GGCTAGCTACAACGA CCATTGGA	33247
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4970	6060	AAGUUCGA G UCGUCUUC	12867	GAAGACGA	GGCTAGCTACAACGA TCGAACTT	33249
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4983	6047	CUUCAUUC G UGUGCCCC	12869	GGGGCACA	GGCTAGCTACAACGA GAATGAAG	33251
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4987	6043	AUUCGUGU G CCCCCCAU	12871	ATGGGGGG	GGCTAGCTACAACGA ACACGAAT	33253
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5038	5992	ACCGAUAC G UCCACGUC	12874	GACGTGGA GGCTAGCTACAACGA GTATCGGT	33256
5044	5986	ACGUCCAC G UCUCUGGG	12875	CCCAGAGA GGCTAGCTACAACGA GTGGACGT	33257
5052	5978	GUCUCUGG G CGGCACUA	12876	TAGTGCCG GGCTAGCTACAACGA CCAGAGAC	33258
5055	5975	UCUGGGCG G CACUAGCU	12877	AGCTAGTG GGCTAGCTACAACGA CGCCAGAG	33259
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5064	5966	CACUAGCU G CUGUCACU	12879	AGTGACAG GGCTAGCTACAACGA AGCTAGTG	33261
5067	5963	UAGCUGCU G UCACUGCA	12880	TGCAGTGA GGCTAGCTACAACGA AGCAGCTA	33262
5073	5957	CUGUCACU G CAGAUGGU	12881	ACCATCTG GGCTAGCTACAACGA AGTGACAG	33263
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5112	5918	CUCCUUCU G UUAUGAUG	12883	CATCATAA GGCTAGCTACAACGA AGAAGGAG	33265
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5141	5889	CUCUCCG G CUGUCAAU	12886	ATTGACAG GGCTAGCTACAACGA CGGAAGAG	33268
5144	5886	UUCCGGCU G UCAAUCAC	12887	GTGATTGA GGCTAGCTACAACGA AGCCGGAA	33269
5156	5874	AUCACCCU G CUCGCCUU	12888	AAGGCGAG GGCTAGCTACAACGA AGGGTGAT	33270
5160	5870	CCUGCUC G CCUUGAAG	12889	CTTCAAGG GGCTAGCTACAACGA GAGCAGGG	33271
5168	5862	GCCUUGAA G UUAGCCCC	12890	GGGGCTAA GGCTAGCTACAACGA TTTCAAGG	33272
5172	5858	UGAAGUUA G CCCCCAUU	12891	AATGGGGG GGCTAGCTACAACGA TAACTTCA	33273
5189	5841	UCAGAUAU G UCUGUUGU	12892	ACAACAGA GGCTAGCTACAACGA ATATCTGA	33274
5193	5837	AUAUGUCU G UUGUGAUA	12893	TATCACA GGCTAGCTACAACGA AGACATAT	33275
5196	5834	UGUCUGUU G UGAUAACA	12894	TGTTATCA GGCTAGCTACAACGA AACAGACA	33276
5207	5823	AUAACAAA G UCCCAAUC	12895	GATTGGGA GGCTAGCTACAACGA TTTGTTAT	33277
5219	5811	CAAUCAUC G UUCUACA	12896	TGTAAGAA GGCTAGCTACAACGA GATGATTG	33278
5234	5796	CAUUUUGG G UACUCCGU	12897	ACGGAGTA GGCTAGCTACAACGA CCAAAATG	33279
5241	5789	GGUACUCC G UCUCGUAC	12898	GTACGAGA GGCTAGCTACAACGA GGAGTACC	33280
5246	5784	UCCGUCUC G UACGACUU	12899	AAGTCGTA GGCTAGCTACAACGA GAGACGGA	33281
5258	5772	GACUUCU G UUCAUUG	12900	CAATTGAA GGCTAGCTACAACGA AGAAAGTC	33282
5283	5747	UCUUUCCA G CACGUUGU	12901	ACAACGTG GGCTAGCTACAACGA TGGAAAGA	33283
5287	5743	UCCAGCAC G UUGUAGGC	12902	GCCTACAA GGCTAGCTACAACGA GTGCTGGA	33284
5290	5740	AGCACGUU G UAGGCAAA	12903	TTTGCCCTA GGCTAGCTACAACGA AACGTGCT	33285
5294	5736	CGUUGUAG G CAAAGGGC	12904	GCCCTTTG GGCTAGCTACAACGA CTACACG	33286
5301	5729	GGCAAAGG G CAAUCUCA	12905	TGAGATTG GGCTAGCTACAACGA CCTTTGCC	33287
5329	5701	GACACUAG G CACAAACC	12906	GGTTTGTG GGCTAGCTACAACGA CTAGTGTC	33288
5343	5687	ACCAAACC G UCUCCCCG	12907	CGGAAGA GGCTAGCTACAACGA GGTTTGGT	33289
5352	5678	UCUCCCCG G UGUUUCU	12908	AGAATACA GGCTAGCTACAACGA CGGAAGA	33290
5354	5676	UUCCCGGU G UAUUCUGU	12909	ACAGAATA GGCTAGCTACAACGA ACCGGGAA	33291
5361	5669	UGUAUUCU G UGAUCCAU	12910	ATGGATCA GGCTAGCTACAACGA AGAATACA	33292
5372	5658	AUCCAUUC G UAUCAGA	12911	TCTGGATA GGCTAGCTACAACGA GAATGGAT	33293
5381	5649	UAUCCAGA G UUCCAAGC	12912	GCCTGGAA GGCTAGCTACAACGA TCTGGATA	33294
5388	5642	AGUCCAA G CUCGAUCC	12913	GGATCGAG GGCTAGCTACAACGA TGTGAAC	33295
5406	5624	GGAUCUCA G UCUGUAAG	12914	CTTACAGA GGCTAGCTACAACGA TGAGATCC	33296
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5414	5616	GUCUGUAA G UCGGAAAU	12916	ATTTCGGA GGCTAGCTACAACGA TTACAGAC	33298
5425	5605	GGAAAUUG G UGAAUUGG	12917	CCAATTCA GGCTAGCTACAACGA CAATTTCC	33299
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5456	5574	UCUGAAGU G CCUGGUGG	12919	CCACCAGG GGCTAGCTACAACGA ACTTCAGA	33301
5461	5569	AGUGCCUG G UGGGUGG	12920	CCACCCCA GGCTAGCTACAACGA CAGGCAC	33302
5466	5564	CUGGUGGG G UGGCUGUC	12921	GACAGCCA GGCTAGCTACAACGA CCCACCAG	33303
5469	5561	GUGGGGUG G CUGUCAUG	12922	CATGACAG GGCTAGCTACAACGA CACCCAC	33304
5472	5558	GGGUGGCU G UCAUGAAU	12923	ATTCATGA GGCTAGCTACAACGA AGCCACCC	33305
5484	5546	UGAAUAUU G CCGCCGCC	12924	GGCGGCGG GGCTAGCTACAACGA AATATTCA	33306
5487	5543	AUAUUGCC G CCGCCUCC	12925	GGAGGCGG GGCTAGCTACAACGA GGCAATAT	33307
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5500	5530	CUCCCCUA G CUCGACCU	12927	AGGTCGAG GGCTAGCTACAACGA TAGGGGAG	33309
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5519	5511	GUGGAAAU G UAACUCU	12929	AGAGGTTA GGCTAGCTACAACGA ATTTCCAC	33311
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5537	5493	GCUGCAAU G CUAGCUGG	12932	CCAGCTAG GGCTAGCTACAACGA ATTGCAGC	33314
5541	5489	CAAUGCUA G CUGGGUCG	12933	CGACCCAG GGCTAGCTACAACGA TAGCATTG	33315
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5550	5480	CUGGGUCG G UGAAAUUGA	12935	TCATTTCA GGCTAGCTACAACGA CGACCCAG	33317
5559	5471	UGAAAUUGA G CCUCAUCC	12936	GGATGAGG GGCTAGCTACAACGA TCATTTCA	33318

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5582	5448	AACAGGUU G UAGUUCGG	12938	CCGAAC TA GGCTAGCTACAACGA AACCTGTT	33320
5585	5445	AGGUUGUA G UUCGGCAC	12939	GTGCCGAA GGCTAGCTACAACGA TACAACCT	33321
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5628	5402	UGAGGGUA G CAUGACAC	12946	GTGTCATG GGCTAGCTACAACGA TACCCTCA	33328
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5679	5351	UGGGCACU G CGGAUGUC	12949	GACATCCG GGCTAGCTACAACGA AGTGCCCA	33331
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5701	5329	CCGGAUGG G CAGUCCUC	12952	GAGGACTG GGCTAGCTACAACGA CCATCCGG	33334
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5713	5317	UCCUCUCA G UGCUCACG	12954	CTGAAGCA GGCTAGCTACAACGA TGAGAGGA	33336
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5749	5281	CCUGGUUG G UGCUAGCA	12960	TGCTAGCA GGCTAGCTACAACGA CAACCAGG	33342
5751	5279	UGGUUGGU G CUAGCAGC	12961	CGTGCTAG GGCTAGCTACAACGA ACCAACCA	33343
5755	5275	UGGUGCUA G CACGGCUG	12962	CAGCCGTG GGCTAGCTACAACGA TAGCACCA	33344
5760	5270	CUAGCAGC G CUGUUCUC	12963	GAGAACAG GGCTAGCTACAACGA CGTGCTAG	33345
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5828	5202	UUACCGGC G CCGGGGAG	12972	CATCCCGG GGCTAGCTACAACGA CGCGGTAA	33354
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5878	5152	CAUCUCAG G UUCGAAUC	12977	GATTTCGA GGCTAGCTACAACGA CTGAGATG	33359
5889	5141	CGAAUCCG G CUGGGAUU	12978	AATCCCAG GGCTAGCTACAACGA CGGATTCTG	33360
5899	5131	UGGGAUUG G CUCAUCCA	12979	TGGATGAG GGCTAGCTACAACGA CAATCCCA	33361
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5942	5088	AUGUAUGA G CCGUUGGG	12984	CCCAACGG GGCTAGCTACAACGA TCATACAT	33366
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5990	5040	ACAUCACC G UUUUUGUC	12989	GACAAAAA GGCTAGCTACAACGA GGTGATGT	33371
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6018	5012	AGCCUGAU G UUCCAGUG	12993	CACTGGAA GGCTAGCTACAACGA ATCAGGCT	33375
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6066	4964	CUUCAGGU G UUUUGAAC	12999	GTTCAAAA GGCTAGCTACAACGA ACCTGAAG	33381

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6087	4943	CUGGUUUC G UCUGGACG	13001	CGTCCAGA GGCTAGCTACAACGA GAAACCAG	33383
6095	4935	GUCUGGAC G UUCUUAAC	13002	GTTAAGAA GGCTAGCTACAACGA GTCCAGAC	33384
6104	4926	UUCUUAAC G UUUCUGCC	13003	GGCAAGAA GGCTAGCTACAACGA GTTAAGAA	33385
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6115	4915	CUUGCCAG G UUCCACCA	13005	TGGTGGAA GGCTAGCTACAACGA CTGGCAAG	33387
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6249	4781	UCAUCAA G CGGCUCU	13021	AGGAGCCG GGCTAGCTACAACGA TTTGATGA	33403
6252	4778	UCAAGCG G CUCCUUU	13022	AAAAGGAG GGCTAGCTACAACGA CGCTTTGA	33404
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6276	4754	GCCAAAGG G UGUGGAAA	13026	TTTCCACA GGCTAGCTACAACGA CCTTTGGC	33408
6278	4752	CAAAGGU G UGGAAAC	13027	GTTTTCCA GGCTAGCTACAACGA ACCCTTTG	33409
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6306	4724	UCACGCCC G CUCCUGCU	13029	AGCAGGAG GGCTAGCTACAACGA GGGCGTGA	33411
6312	4718	CCGCUCCU G CUUGAUAA	13030	TTATCAAG GGCTAGCTACAACGA AGGAGCGG	33412
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6363	4667	CGCCGGUG G UCGUGUCC	13038	GGACACGA GGCTAGCTACAACGA CACCGGCG	33420
6366	4664	CGGUGGUC G UGUCCCC	13039	GGGGGACA GGCTAGCTACAACGA GACCACCG	33421
6368	4662	GUGGUCGU G UCCCCUU	13040	AAGGGGGA GGCTAGCTACAACGA ACGACCAC	33422
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6399	4631	GUGAGGGA G UGUCCAC	13043	GTGGGACA GGCTAGCTACAACGA TCCCTCAC	33425
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6413	4617	CACAACAC G CCUCCU	13045	AGAGGAGG GGCTAGCTACAACGA GTGTTGTG	33427
6426	4604	CUCUCUUU G UGUUUGG	13046	CCAATACA GGCTAGCTACAACGA AAAGAGAG	33428
6428	4602	CUCUUGU G UAUUGGAG	13047	CTCCAATA GGCTAGCTACAACGA ACAAAGAG	33429
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6463	4567	UACUGAGG G CAAGAUUG	13049	CAATCTTG GGCTAGCTACAACGA CCTCAGTA	33431
6471	4559	GCAAGAUU G CCCAGGGG	13050	CCCTTGGG GGCTAGCTACAACGA AATCTTGC	33432
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6486	4544	GGGUGUAC G CACUAAUC	13053	GATTAGTG GGCTAGCTACAACGA GTACACCC	33435
6495	4535	CACUAAUC G CGAGACAG	13054	CTGTCTCG GGCTAGCTACAACGA GATTAGTG	33436
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6532	4498	CUUCCAAG G UGUCCUG	13056	CAGGAGCA GGCTAGCTACAACGA CTTGGAAG	33438
6534	4496	UCCAAGGU G CUCCUGGA	13057	TCCAGGAG GGCTAGCTACAACGA ACCTTGGA	33439
6553	4477	AUUAUGA G CUGGAAGU	13058	ACTTCCAG GGCTAGCTACAACGA TCATGAAT	33440
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6580	4450	AUCAAGCC G CACAUCAA	13061	TTGATGTG GGCTAGCTACAACGA GGCTTGAT	33443
6596	4434	ACUCUUUC G CUCGAGCC	13062	GGCTCGAG GGCTAGCTACAACGA GAAAGAGT	33444

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6606	4424	UCGAGCCU G UAAUUUCU	13064	AGAAATTA	GGCTAGCTACAACGA AGGCTCGA	33446
6615	4415	UAAUUUCU G CAUCACUU	13065	AAGTGATG	GGCTAGCTACAACGA AGAAATTA	33447
6635	4395	CAGGAAAU G UCCGCCGU	13066	ACGCGCGA	GGCTAGCTACAACGA ATTTCTTG	33448
6639	4391	AAAUGUCC G CCGUUCUC	13067	GAGAACGG	GGCTAGCTACAACGA GGACATTT	33449
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6663	4367	ACAUUUCU G UUGAUUUC	13069	GAAATCAA	GGCTAGCTACAACGA AGATATGT	33451
6687	4343	UCACGAAA G CAGCAAAC	13070	GTTTGCTG	GGCTAGCTACAACGA TTTCGTGA	33452
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6700	4330	AAACAUGA G CCCCAGCA	13072	TCGCGGGG	GGCTAGCTACAACGA TCATGTTT	33454
6705	4325	UGAGCCCC G CGAUAGUC	13073	GACTATCG	GGCTAGCTACAACGA GGGGCTCA	33455
6711	4319	CCGCGAUA G UCAUUGGA	13074	TCCAATGA	GGCTAGCTACAACGA TATCGCGG	33456
6723	4307	UUGGAAUG G CCAUGGAG	13075	CTCCATGG	GGCTAGCTACAACGA CATTCCAA	33457
6731	4299	GCCAUGGA G UCAAUGUC	13076	GACATTGA	GGCTAGCTACAACGA TCCATGGC	33458
6737	4293	GAGUCAAU G UCAAGCUC	13077	GAGCTTGA	GGCTAGCTACAACGA ATTGACTC	33459
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6747	4283	CAAGCUCU G CCAGCCCU	13079	AGGGCTGG	GGCTAGCTACAACGA AGAGCTTG	33461
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6765	4265	CGACGAUG G CAAACAUA	13081	AATGTTTG	GGCTAGCTACAACGA CATCGTCG	33463
6776	4254	AACAUAUG G CCGACAGC	13082	GCTGTCGG	GGCTAGCTACAACGA CTAATGTT	33464
6783	4247	GGCCGACA G CUGUCAUC	13083	GATGACAG	GGCTAGCTACAACGA TGTCGGCC	33465
6786	4244	CGACAGCU G UCAUACAU	13084	AGTGATGA	GGCTAGCTACAACGA AGCTGTCT	33466
6798	4232	UCACUUCA G UUGCGGGC	13085	GCCCCGAA	GGCTAGCTACAACGA TGAAGTGA	33467
6801	4229	CUUCAGUU G CCGGCCAU	13086	ATGGCCCG	GGCTAGCTACAACGA AACTGAAG	33468
6805	4225	AGUUGCGG G CCAUCCGC	13087	CCGGATGG	GGCTAGCTACAACGA CCGCAACT	33469
6812	4218	GGCCAUCC G CGUUUACG	13088	CGTAAACG	GGCTAGCTACAACGA GGATGGCC	33470
6814	4216	CCAUCCGC G UUUACGGU	13089	ACCGTAAA	GGCTAGCTACAACGA GCGGATGG	33471
6821	4209	CGUUUACG G UUGGGUUC	13090	GATCCCAA	GGCTAGCTACAACGA CGTAAACG	33472
6834	4196	GAUCACAU G CAAUCAGU	13091	ACTGATTG	GGCTAGCTACAACGA ATGTGATC	33473
6841	4189	UGCAAUCA G UCCAGCAG	13092	CTGTCTGA	GGCTAGCTACAACGA TGATTGCA	33474
6846	4184	UCAGUCCA G CAGCAAGG	13093	CCTTGCTG	GGCTAGCTACAACGA TGGACTGA	33475
6849	4181	GUCCAGCA G CAAGGAUC	13094	GATCCTTG	GGCTAGCTACAACGA TGCTGGAC	33476
6863	4167	AUCAUGGG G UUGAAAAG	13095	CTTTTCAA	GGCTAGCTACAACGA CCCATGAT	33477
6871	4159	GUUGAAAA G UCCUGUUG	13096	CAACAGGA	GGCTAGCTACAACGA TTTTCAAC	33478
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCTCAA	GGCTAGCTACAACGA AGGACTTT	33479
6882	4148	CUGUUGAG G CUAGAGCC	13098	GGCTCTAG	GGCTAGCTACAACGA CTCAACAG	33480
6888	4142	AGGCUAGA G CCAAGCAU	13099	ATGCTTGG	GGCTAGCTACAACGA TCTAGCCT	33481
6893	4137	AGAGCCAA G CAUAGCAG	13100	CTGTATAT	GGCTAGCTACAACGA TTGGCTCT	33482
6898	4132	CAAGCAUA G CAGACUUG	13101	CAAGTCTG	GGCTAGCTACAACGA TATGCTTG	33483
6906	4124	GCAGACUU G CUCCUUUC	13102	GAAAGGAG	GGCTAGCTACAACGA AAGTCTGC	33484
6921	4109	UCUUUUUU G CAGCUGCA	13103	TGCAGCTG	GGCTAGCTACAACGA AAAAAAGA	33485
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGTGCAG	GGCTAGCTACAACGA TGCAAAAA	33486
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGTG	GGCTAGCTACAACGA AGCTGCAC	33487
6950	4080	CUGAUCAA G CUGCCUAU	13106	ATAGGCAG	GGCTAGCTACAACGA TTGATCAG	33488
6953	4077	AUCAAGCU G CCUAUUCU	13107	GGAATAGG	GGCTAGCTACAACGA AGCTTGAT	33489
6973	4057	CAUCAACA G CAGUAUCC	13108	GGATACTG	GGCTAGCTACAACGA TGTTGATG	33490
6976	4054	CAACAGCA G UAUCUGU	13109	ACAGGATA	GGCTAGCTACAACGA TGCTGTTG	33491
6983	4047	AGUAUCCU G UACACAUC	13110	GATGTGTA	GGCTAGCTACAACGA AGGATACT	33492
7001	4029	AGAUUCAA G CAUCUCAG	13111	CTGAGATG	GGCTAGCTACAACGA TTGAATCT	33493
7009	4021	GCAUCUCA G CCCGGGUG	13112	CACCCGGG	GGCTAGCTACAACGA TGAGATGC	33494
7015	4015	CAGCCCGG G UGUUAGCA	13113	TGCTAACA	GGCTAGCTACAACGA CCGGGCTG	33495
7017	4013	GCCCGGGU G UUAGCAGG	13114	CCTGCTAA	GGCTAGCTACAACGA ACCCGGGC	33496
7021	4009	GGGUGUUA G CAGGGCUA	13115	TAGCCCTG	GGCTAGCTACAACGA TAACACCC	33497
7026	4004	UUAGCAGG G CUAGCAGC	13116	GCTGCTAG	GGCTAGCTACAACGA CCTGCTAA	33498
7030	4000	CAGGGCUA G CAGCGGAA	13117	TTCCGCTG	GGCTAGCTACAACGA TAGCCCTG	33499
7033	3997	GGCUAGCA G CGGAACAA	13118	TTGTTCCG	GGCTAGCTACAACGA TGCTAGCC	33500
7046	3984	ACAACCAC G UUUGAUGU	13119	ACATCAAA	GGCTAGCTACAACGA GTGGTTGT	33501
7053	3977	CGUUUGAU G UCGUUGUG	13120	CACAACGA	GGCTAGCTACAACGA ATCAAACG	33502
7056	3974	UUGAUGUC G UUGUGAAU	13121	ATTACAAA	GGCTAGCTACAACGA GACATCAA	33503
7059	3971	AUGUCGUU G UGAAUGUU	13122	AACATTTA	GGCTAGCTACAACGA AACGACAT	33504
7065	3965	UUGUGAAU G UUAUGGCU	13123	AGCCATAA	GGCTAGCTACAACGA ATTCACAA	33505
7071	3959	AUGUUAUG G CUCUCAGU	13124	ACTGAGAG	GGCTAGCTACAACGA CATAACAT	33506
7078	3952	GGCUCUCA G UAUCAUCC	13125	GGATGATA	GGCTAGCTACAACGA TGAGAGCC	33507

7089	3941	UCAUCCAA G CUACCGCC	13126	GGCGGTAG GGCTAGCTACAACGA TTGGATGA	33508
7095	3935	AAGCUACC G CCAGUGAA	13127	TTCACTGG GGCTAGCTACAACGA GGTAGCTT	33509
7099	3931	UACCGCCA G UGAAUUA	13128	TGAATTCA GGCTAGCTACAACGA TGGCGGTA	33510
7129	3901	CUCCAGAG G CAGAAUUU	13129	AAATTCTG GGCTAGCTACAACGA TCTGGGAG	33511
7139	3891	AGAAUUUG G CGGGCAUC	13130	GATGCCCG GGCTAGCTACAACGA CAAATTCT	33512
7143	3887	UUUGGCGG G CAUCGUGA	13131	TCACGATG GGCTAGCTACAACGA CCGCCAAA	33513
7148	3882	CGGGCAUC G UGAUAAGC	13132	GCTTATCA GGCTAGCTACAACGA GATGCCCG	33514
7155	3875	CGUGAUA G CCAUUUGA	13133	TCAAATGG GGCTAGCTACAACGA TTATCACG	33515
7173	3857	AGAAAACA G CCGCCAAC	13134	GTTGGCGG GGCTAGCTACAACGA TGTTTCT	33516
7176	3854	AAACAGCC G CCAACAUC	13135	GATGTTGG GGCTAGCTACAACGA GGCTGTTT	33517
7193	3837	AACAAAUA G UUCUCCUG	13136	CAGGAGAA GGCTAGCTACAACGA ATTTTGT	33518
7202	3828	UUCUCCUG G UUGGUCCA	13137	TGGACCAA GGCTAGCTACAACGA CAGGAGAA	33519
7206	3824	CCUGGUUG G UCCAUCUC	13138	GAGATGGA GGCTAGCTACAACGA CAACCAGG	33520
7215	3815	UCCAUCUC G CUUUGAGA	13139	TCTCAAAG GGCTAGCTACAACGA GAGATGGA	33521
7230	3800	GAAACGAU G CCACCAUA	13140	TATGGTGG GGCTAGCTACAACGA ATCGTTTC	33522
7246	3784	AAACACUG G UUGUAUCU	13141	AGATACAA GGCTAGCTACAACGA CAGTGT	33523
7249	3781	CACUGGUU G UAUCUUGA	13142	TCAAGATA GGCTAGCTACAACGA AACCAGTG	33524
7260	3770	UCUUGAAG G UCGCCAUG	13143	CATGGCGA GGCTAGCTACAACGA CTTCAAGA	33525
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7270	3760	CGCCAUGA G CGCCAAGU	13145	ACTTGGCG GGCTAGCTACAACGA TCATGGCG	33527
7272	3758	CCAUGAGC G CCAAGUGU	13146	ACACTTGG GGCTAGCTACAACGA GCTCATGG	33528
7277	3753	AGCGCCAA G UGUACCAC	13147	GTGGTACA GGCTAGCTACAACGA TTGGCGCT	33529
7279	3751	CGCCAAGU G UACCACGU	13148	ACGTGGTA GGCTAGCTACAACGA ACTTGGCG	33530
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GGCTAGCTACAACGA GTGGTACA	33531
7308	3722	UAGAUUCU G CGAAAGCU	13150	AGCTTTCG GGCTAGCTACAACGA AGAATCTA	33532
7314	3716	CUGCGAAA G CUGCCCCC	13151	GGGGCCAG GGCTAGCTACAACGA TTTCCGAG	33533
7317	3713	CGAAAGCU G CCCCCACC	13152	GGTGGGGG GGCTAGCTACAACGA AGCTTTCG	33534
7337	3693	AUGACAUA G CGUAAACAC	13153	GTGTTACG GGCTAGCTACAACGA TATGTAT	33535
7339	3691	GACAUAGC G UAACACAU	13154	ATGTGTTA GGCTAGCTACAACGA GCTATGTC	33536
7350	3680	ACACAUCA G UGUAGUA	13155	TACTTACA GGCTAGCTACAACGA TGATGTGT	33537
7352	3678	ACAUCAGU G UAAGUAAU	13156	ATTACTTA GGCTAGCTACAACGA ACTGATGT	33538
7356	3674	CAGUGUAA G UAAUGCCC	13157	GGGCATTA GGCTAGCTACAACGA TTACACTG	33539
7361	3669	UAAGUAAU G CCCCCAAA	13158	TTTGGGGG GGCTAGCTACAACGA ATTACTTA	33540
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7386	3644	CUAGCAGA G CAAUCAGU	13160	ACTGATTG GGCTAGCTACAACGA TCTGCTAG	33542
7393	3637	AGCAAUCA G UAUAGCUG	13161	CAGCTATA GGCTAGCTACAACGA TGATTGCT	33543
7398	3632	UCAGUAAU G CUGGCAUG	13162	CATGCCAG GGCTAGCTACAACGA TATACTGA	33544
7402	3628	UAUAGCUG G CAUGCUGA	13163	TCAGCATG GGCTAGCTACAACGA CAGCTATA	33545
7406	3624	GCUGGCAU G CUGAUCUU	13164	AAGATCAG GGCTAGCTACAACGA ATGCCAGC	33546
7416	3614	UGAUCUUG G CUGUCCAC	13165	GTGGACAG GGCTAGCTACAACGA CAAGATCA	33547
7419	3611	UCUUGGCU G UCCACCUC	13166	GAGGTGGA GGCTAGCTACAACGA AGCCAAGA	33548
7430	3600	CACCUCUU G CGAAGGAC	13167	GTCTCTCG GGCTAGCTACAACGA AAGAGGTG	33549
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7449	3581	CCUGGGUG G CCAAGAAC	13169	GTTCTTGG GGCTAGCTACAACGA CACTCAGG	33551
7469	3561	ACCAGAAG G CCCAACUG	13170	CAGTTGGG GGCTAGCTACAACGA CTCTGTGT	33552
7484	3546	UGAAAAGG G UCAAUCAU	13171	ATGATTGA GGCTAGCTACAACGA CCTTTTCA	33553
7497	3533	UCAUAUCA G CAUUAUAA	13172	TTATAATG GGCTAGCTACAACGA TGATATGA	33554
7506	3524	CAUUAUAA G CAUUCACU	13173	AGTGAATG GGCTAGCTACAACGA TTATAATG	33555
7516	3514	AUUCACUU G UGACUGCA	13174	TGCAGTCA GGCTAGCTACAACGA AAGTGAAT	33556
7522	3508	UUGUGACU G CACGAGGG	13175	CCCTCGTG GGCTAGCTACAACGA AGTCACAA	33557
7530	3500	GCACGAGG G UCUIUUA	13176	TGAAAAGA GGCTAGCTACAACGA CCTCGTGC	33558
7543	3487	UUCAUCAU G UCUCUGUG	13177	CACAGAGA GGCTAGCTACAACGA ATGATGAA	33559
7549	3481	AUGUCUCU G UGUUCUGA	13178	TCAGACCA GGCTAGCTACAACGA AGAGACAT	33560
7552	3478	UCUCUGUG G UCUGAUCU	13179	AGATCAGA GGCTAGCTACAACGA CACAGAGA	33561
7577	3453	UACCAACA G CCGCUGUC	13180	GACAGCGG GGCTAGCTACAACGA TGTGGTGA	33562
7580	3450	CAACAGCC G CUGUCAGU	13181	ACTGACAG GGCTAGCTACAACGA GGCTGTTG	33563
7583	3447	CAGCCGCU G UCAGUUUG	13182	CAAACCTGA GGCTAGCTACAACGA AGCGGCTG	33564
7587	3443	CGCUGUCA G UUUGGUAG	13183	CTACCAAA GGCTAGCTACAACGA TGACAGCG	33565
7592	3438	UCAGUUUG G UAGCGCAG	13184	CTGCGCTA GGCTAGCTACAACGA CAAACTGA	33566
7595	3435	GUUUGGUA G CGCAGUGG	13185	CCACTGCG GGCTAGCTACAACGA TACCAAAC	33567
7597	3433	UUGGUAGC G CAGUGGUG	13186	CACCACTG GGCTAGCTACAACGA GCTACCAA	33568
7600	3430	GUAGCGCA G UGGUGGUA	13187	TACCACCA GGCTAGCTACAACGA TGCCTAC	33569
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7613	3417	GGUAAGGU G CAGCUCCU	13191	AGGAGCTG GGCTAGCTACAACGA ACCTTACC	33573
7616	3414	AAGGUGCA G CUCCUGCA	13192	TGCAGGAG GGCTAGCTACAACGA TGCACCTT	33574
7622	3408	CAGCUCCU G CAGCACCA	13193	TGGTGCTG GGCTAGCTACAACGA AGGAGCTG	33575
7625	3405	CUCCUGCA G CACCAAUC	13194	GATTGGTG GGCTAGCTACAACGA TGCAGGAG	33576
7635	3395	ACCAAUCU G UUAUCAAC	13195	GTTGATAA GGCTAGCTACAACGA AGATTGGT	33577
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7664	3366	GUGGUGGU G CGAGUGGC	13200	GCCACTCG GGCTAGCTACAACGA ACCACCAC	33582
7668	3362	UGGUGCGA G UGGCAGGU	13201	ACCTGCCA GGCTAGCTACAACGA TCGCACCA	33583
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7688	3342	CGGUGUCC G CAGCUCUC	13206	GAGAGCTG GGCTAGCTACAACGA GGACACCG	33588
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7724	3306	CCUGGGCA G UAAUCGAA	13212	TTCCGATTA GGCTAGCTACAACGA TGCCGAGG	33594
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7748	3282	UCUACCCG G CCUUCGUC	13214	GACGAAGG GGCTAGCTACAACGA CGGGTAGA	33596
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7774	3256	CUGGUUUU G UGUUUUGU	13218	ACAAGACA GGCTAGCTACAACGA AAAACCAG	33600
7776	3254	GGUUUUUG G UCUUGUAC	13219	GTACAAGA GGCTAGCTACAACGA ACAAACCC	33601
7781	3249	UGUGUCUU G UACCCAGG	13220	TCTGGGTA GGCTAGCTACAACGA AAGACACA	33602
7789	3241	GUACCCAG G UCUCCGAU	13221	ATCGGAGA GGCTAGCTACAACGA CTGGGTAC	33603
7799	3231	CUCCGAUU G UGAUUGCU	13222	AGCAATCA GGCTAGCTACAACGA AATCGGAG	33604
7805	3225	UUGUGAUU G CUUCGUGG	13223	CCACGAAG GGCTAGCTACAACGA AATCACAA	33605
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7862	3168	AUCCAUC G CCCACAA	13231	TTGTGGGG GGCTAGCTACAACGA GATGGAAT	33613
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7878	3152	AGGUUUGC G UCUCAGGC	13234	GCCTGAGA GGCTAGCTACAACGA GCATACCT	33616
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7917	3113	CCAGAACU G CCCUUUCA	13237	TGAAAGGG GGCTAGCTACAACGA AGTTCTGG	33619
7927	3103	CCUUUCAA G CUUCCACG	13238	CGTGGAAG GGCTAGCTACAACGA TTGAAAGG	33620
7935	3095	GCUUCCAC G UAUCAUUG	13239	CAATGATA GGCTAGCTACAACGA GTGGAAGC	33621
7945	3085	AUCAUUGA G CCUGCUUU	13240	AAAGCAGG GGCTAGCTACAACGA TCAATGAT	33622
7949	3081	UUGAGCCU G CUUUCAAU	13241	ATTGAAAG GGCTAGCTACAACGA AGGCTCAA	33623
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGTGA GGCTAGCTACAACGA CTGTCTTA	33624
7976	3054	AGGUCACU G UGGAUCGC	13243	GCGATCCA GGCTAGCTACAACGA AGTGACCT	33625
7983	3047	UGUGGAUC G CCAAGUUG	13244	CAACTTGG GGCTAGCTACAACGA GATCCACA	33626
7988	3042	AUCGCCAA G UUGUUCUU	13245	AAGAACAA GGCTAGCTACAACGA TTGGCGAT	33627
7991	3039	GCCAAGUU G UUCUUGAC	13246	TGCAAGAA GGCTAGCTACAACGA AACTTGGC	33628
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8004	3026	UGACAGCC G UUCAUUG	13248	CATTGGAA GGCTAGCTACAACGA GGCTGTCA	33630
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8031	2999	CACAUUCA G UUGUGUUG	13250	CAACACAA GGCTAGCTACAACGA TGAATGTG	33632
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8039	2991	GUUGUGUU G CUCUCUCU	13253	AGAGAGAG GGCTAGCTACAACGA AACACAAC	33635
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8117	2913	UUCCAAGC G CGAUUCUG	13259	CAGAATCG GGCTAGCTACAACGA GCTTGGA	33641
8127	2903	GAUUCUGA G UCGGACAU	13260	ATGTCCGA GGCTAGCTACAACGA TCAGAATC	33642
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8166	2864	CCACAAAG G UGUUGUUG	13262	CAACAACA GGCTAGCTACAACGA CTTTGTGG	33644
8168	2862	ACAAAGGU G UGUUGGC	13263	GCCAACAA GGCTAGCTACAACGA ACCTTTGT	33645
8171	2859	AAGGUGUU G UUGGCGAG	13264	CTCGCCAA GGCTAGCTACAACGA AACACCTT	33646
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8179	2851	GUUGGCGA G UUCUGGUG	13266	CACCAGAA GGCTAGCTACAACGA TCGCCAAC	33648
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8219	2811	GCCUCCA G CCAAUUC	13270	GAAATTGG GGCTAGCTACAACGA TGGAAGGC	33652
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8241	2789	UUUCCGUG G UGGCGGUG	13272	CACCGCCA GGCTAGCTACAACGA GCGGAAA	33654
8244	2786	CCGUGGUG G CGGUGAGG	13273	CCTCACCG GGCTAGCTACAACGA CACCACGG	33655
8247	2783	UGGUGGCG G UGAGGCGU	13274	ACGCCTCA GGCTAGCTACAACGA CGCCACCA	33656
8252	2778	GCGGUGAG G CGUUUAGG	13275	CCTAAACG GGCTAGCTACAACGA CTCACCGC	33657
8254	2776	GGUGAGGC G UUUAGGUG	13276	CACCTAAA GGCTAGCTACAACGA GCCTCACC	33658
8260	2770	GCGUUUAG G UGCUGACU	13277	AGTCAGCA GGCTAGCTACAACGA CTAAACGC	33659
8262	2768	GUUUAGGU G CUGACUUG	13278	CAAGTCAG GGCTAGCTACAACGA ACCTAAAC	33660
8270	2760	GCUGACUU G UACAUUC	13279	GGAATGTA GGCTAGCTACAACGA AGTCAGC	33661
8284	2746	UCCCUCCU G UUUUCUAA	13280	TTGAGAAA GGCTAGCTACAACGA AGTAGGGA	33662
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8333	2697	AAAAGAGU G UUCAGCUC	13283	GAGCTGAA GGCTAGCTACAACGA ACTCTTTT	33665
8338	2692	AGUGUUA G CUCGUCCU	13284	AGGACGAG GGCTAGCTACAACGA TGAACACT	33666
8342	2688	UUCAGCUC G UCCUUCAC	13285	GTGAAGGA GGCTAGCTACAACGA GAGCTGAA	33667
8352	2678	CCUUCACU G CUUCCAC	13286	GTGGGAAG GGCTAGCTACAACGA AGTGAAGG	33668
8368	2662	CAUUUGAU G CUCCAGUC	13287	GACTGGAG GGCTAGCTACAACGA ATCAAATG	33669
8374	2656	AUGCUGA G UCUGGAAA	13288	TTCCAGA GGCTAGCTACAACGA TGGAGCAT	33670
8389	2641	AACUGAUC G UAGACCGC	13289	GCGGTCTA GGCTAGCTACAACGA GATCAGTT	33671
8396	2634	CGUAGACC G CACACUCC	13290	GGAGTGTG GGCTAGCTACAACGA GGTCTACG	33672
8415	2615	CCUUAUGA G CUUUCUGA	13291	TCAGAAAG GGCTAGCTACAACGA TCATAAGG	33673
8433	2597	UGAUCUUG G CUAGGCCU	13292	AGGCCTAG GGCTAGCTACAACGA CAAGATCA	33674
8438	2592	UUGGCUAG G CCUUGUGG	13293	CCACAAGG GGCTAGCTACAACGA CTAGCCAA	33675
8443	2587	UAGGCCTU G UGGCGUUU	13294	AAACGCCA GGCTAGCTACAACGA AAGGCCTA	33676
8446	2584	GCCUUGUG G CGUUCAG	13295	CTGAAACG GGCTAGCTACAACGA CACAAGGC	33677
8448	2582	CUUGUGGC G UUCAGGG	13296	CCCTGAAA GGCTAGCTACAACGA GCCACAAG	33678
8456	2574	GUUUCAGG G UAAUACUU	13297	AAGTATTA GGCTAGCTACAACGA CCTGAAAC	33679
8465	2565	UAAUACUU G UACCGGUC	13298	GACCGGTA GGCTAGCTACAACGA AAGTATTA	33680
8471	2559	UUGUACCG G UCCAUCCA	13299	TGGATGGA GGCTAGCTACAACGA CGGTACAA	33681
8481	2549	CCAUCCAA G CCUCCACA	13300	TGTGGAGG GGCTAGCTACAACGA TTGGATGG	33682
8495	2535	ACAUCAUU G UGUUGAA	13301	TTCATACA GGCTAGCTACAACGA AATGATGT	33683
8497	2533	AUCAUUGU G UAUUGAA	13302	TGTTTATA GGCTAGCTACAACGA ACAATGAT	33684
8524	2506	ACAUCUCA G CUCUUGCC	13303	GGCAAGAG GGCTAGCTACAACGA TGAGATGT	33685
8530	2500	CAGCUCUU G CCGGCUGA	13304	TCAGCCGG GGCTAGCTACAACGA AAGAGCTG	33686
8534	2496	UCUUGCCG G CUGAUGUC	13305	GACATCAG GGCTAGCTACAACGA CGGCAAGA	33687
8540	2490	CGGCUGAU G UCUAUGGC	13306	GCCATAGA GGCTAGCTACAACGA ATCAGCCG	33688
8547	2483	UGUCUAUG G CACACCCA	13307	TGGGTGTG GGCTAGCTACAACGA CATAGACA	33689
8556	2474	CACACCCA G UGUCAGCG	13308	CGCTGACA GGCTAGCTACAACGA TGGGTGTG	33690
8558	2472	CACCCAGU G UCAGCGUG	13309	CACGCTGA GGCTAGCTACAACGA ACTGGGTG	33691
8562	2468	CAGUGUCA G CGUGCACG	13310	CGTGCACG GGCTAGCTACAACGA TGACACTG	33692
8564	2466	GUGUCAGC G UGCACGUU	13311	AACGTGCA GGCTAGCTACAACGA GCTGACAC	33693
8566	2464	GUCAGCGU G CACGUUCA	13312	TGAACGTG GGCTAGCTACAACGA ACGCTGAC	33694
8570	2460	GCGUGCAC G UUCACGGA	13313	TCCGTGAA GGCTAGCTACAACGA GTGCACGC	33695
8587	2443	GAGGAAGA G CAGAACUC	13314	GAGTTCTG GGCTAGCTACAACGA TCTTCCTC	33696

8604	2426	CUCCAACU G	CGAGAAAC	13315	GTTTCTCG	GGCTAGCTACAACGA	AGTTGGAG	33697
8613	2417	CGAGAAAC G	UGAGAGCU	13316	AGCTCTCA	GGCTAGCTACAACGA	GTTTCTCG	33698
8619	2411	ACGUGAGA G	CUAUGGAC	13317	GTCCATAG	GGCTAGCTACAACGA	TCTCACGT	33699
8637	2393	UAUCACGA G	CAUUGAUG	13318	CATCAATG	GGCTAGCTACAACGA	TCGTGATA	33700
8645	2385	GCAUUGAU G	CCCAUCCA	13319	TGGATGGG	GGCTAGCTACAACGA	ATCAATGC	33701
8664	2366	ACAGGAGA G	CCCCCAGC	13320	GCTGGGGG	GGCTAGCTACAACGA	TCTCCTGT	33702
8671	2359	AGCCCCA G	CAAUCCUU	13321	AAGGATTG	GGCTAGCTACAACGA	TGGGGGCT	33703
8680	2350	CAAUCCUU G	CGUUAUCC	13322	GGATAACG	GGCTAGCTACAACGA	AAGGATTG	33704
8682	2348	AUCCUUGC G	UUAUCCAG	13323	CTGGATAA	GGCTAGCTACAACGA	GCAAGGAT	33705
8696	2334	CAGGACAU G	CCUCCGAA	13324	TTCGGAGG	GGCTAGCTACAACGA	ATGTCTTG	33706
8707	2323	UCCGAACA G	UGAGCGGA	13325	TCCGCTCA	GGCTAGCTACAACGA	TGTTCCGA	33707
8711	2319	AACAGUGA G	CGGAAUGC	13326	GCATTCCG	GGCTAGCTACAACGA	TCACTGTT	33708
8718	2312	AGCGGAU G	CUCCUCCG	13327	CGGAGGAG	GGCTAGCTACAACGA	ATTCCGCT	33709
8742	2288	GAUGGACA G	CCUCCCCA	13328	TGGGAAGG	GGCTAGCTACAACGA	TGTCCATC	33710
8757	2273	CAACUGAG G	UGAACACC	13329	GGTGTTC	GGCTAGCTACAACGA	CTCAGTTG	33711
8783	2247	GAUCCAAA G	UCCCAAGC	13330	GCTTGGGA	GGCTAGCTACAACGA	TTTGGATC	33712
8790	2240	AGUCCCAA G	CUGUGUCU	13331	AGACACAG	GGCTAGCTACAACGA	TGTGGACT	33713
8793	2237	CCCAAGCU G	UGUCUCCU	13332	AGGAGACA	GGCTAGCTACAACGA	AGCTTGGG	33714
8795	2235	CAAGCUGU G	UCUCCUAG	13333	CTAGGAGA	GGCTAGCTACAACGA	ACAGCTTG	33715
8805	2225	CUCCUAGA G	CGGCUAGU	13334	ACTAGCCG	GGCTAGCTACAACGA	TCTAGGAG	33716
8808	2222	CUAGAGCG G	CUAGUCUC	13335	GAGACTAG	GGCTAGCTACAACGA	CGCTCTAG	33717
8812	2218	AGCGGCUA G	UCUCUGCG	13336	CGCAGAGA	GGCTAGCTACAACGA	TAGCCGCT	33718
8818	2212	UAGUCUCU G	CGCUCUUC	13337	AAGGAGCG	GGCTAGCTACAACGA	AGAGACTA	33719
8820	2210	GUCUCUGC G	CUCCUUUG	13338	CAAAGGAG	GGCTAGCTACAACGA	GCAGAGAC	33720
8832	2198	CUUUGAGG G	UGGUUGUA	13339	TACAACCA	GGCTAGCTACAACGA	CCTCAAAG	33721
8835	2195	UGAGGGUG G	UUGUAAAG	13340	CTTTACAA	GGCTAGCTACAACGA	CACCTTCA	33722
8838	2192	GGGUGGUU G	UAAAGGCU	13341	AGCCTTTA	GGCTAGCTACAACGA	AACCAACC	33723
8844	2186	UUGUAAAG G	CUUUGCCA	13342	TGGCAAAG	GGCTAGCTACAACGA	CTTTACAA	33724
8849	2181	AAGGCUUU G	CCA AUGCU	13343	AGCATTGG	GGCTAGCTACAACGA	AAAGCCTT	33725
8855	2175	UUGCCAAU G	CUGCUUCC	13344	GGAAGCAG	GGCTAGCTACAACGA	ATTGGCAA	33726
8858	2172	CCAAUGCU G	CUUCCAGA	13345	TCTGGAAG	GGCTAGCTACAACGA	AGCATTGG	33727
8870	2160	CCAGACUU G	UGCCAAUG	13346	CATTGGCA	GGCTAGCTACAACGA	AAGTCTGG	33728
8872	2158	AGACUUGU G	CCA AUGGU	13347	ACCATTGG	GGCTAGCTACAACGA	ACAAGTCT	33729
8879	2151	UGCCAAUG G	UGAUUGAU	13348	ATCAATCA	GGCTAGCTACAACGA	CATTGGCA	33730
8890	2140	AUUGAUCU G	UUGUUCUC	13349	GAGAACAA	GGCTAGCTACAACGA	AGATCAAT	33731
8893	2137	GAUCUGUU G	UUCUCCUC	13350	GAGGAGAA	GGCTAGCTACAACGA	AACAGATC	33732
8903	2127	UCUCCUCU G	CCCACCAC	13351	GTGGTGGG	GGCTAGCTACAACGA	AGAGGAGA	33733
8915	2115	ACCACUUA G	UAUGAGUC	13352	GACTCATA	GGCTAGCTACAACGA	ATAGTGGT	33734
8921	2109	AUGUAUGA G	UCUCCAAA	13353	TTTGGAGA	GGCTAGCTACAACGA	TCATACAT	33735
8932	2098	UCCAAAGG G	UGGUUCCA	13354	TGGAACCA	GGCTAGCTACAACGA	CCTTTGGA	33736
8935	2095	AAAGGGUG G	UUCCAAU	13355	AATTGGAA	GGCTAGCTACAACGA	CACCTTTT	33737
8958	2072	GGACCUUA G	CGUUGGCC	13356	GGCCAACG	GGCTAGCTACAACGA	TAAGGTCT	33738
8960	2070	ACCUUAGC G	UUGGCCGU	13357	ACGGCCAA	GGCTAGCTACAACGA	GCTAAGGT	33739
8964	2066	UAGCGUUG G	CCGUGGCC	13358	GGCCACGG	GGCTAGCTACAACGA	CACCGCTA	33740
8967	2063	CGUUGGCC G	UGGCCACU	13359	AGTGGCCA	GGCTAGCTACAACGA	GGCCAACG	33741
8970	2060	UGGCCGUG G	CCACUGAA	13360	TTCAGTGG	GGCTAGCTACAACGA	CACGGCCA	33742
8987	2043	ACAAAAGG G	UUGACAGU	13361	ACTGTCAA	GGCTAGCTACAACGA	CCTTTTGT	33743
8994	2036	GGUUGACA G	UGACCAAU	13362	ATTGTTCA	GGCTAGCTACAACGA	TGTCAACC	33744
9005	2025	ACCAAUUCU G	CCCACUGG	13363	CCAGTGGG	GGCTAGCTACAACGA	AGATTGGT	33745
9013	2017	GCCCACUG G	CGUUAGGU	13364	ACCTAACG	GGCTAGCTACAACGA	CAGTGGGC	33746
9015	2015	CCACUGGC G	UUAGGUCG	13365	CGACCTAA	GGCTAGCTACAACGA	GCCAGTGG	33747
9020	2010	GGCGUAG G	UCGUUCAA	13366	TTGAAACG	GGCTAGCTACAACGA	CTAACGCC	33748
9023	2007	GUUAGGUC G	UUCAAUGA	13367	TCAATTGA	GGCTAGCTACAACGA	GACCTAAC	33749
9033	1997	UCAAUGAA G	CCACUGAC	13368	GTCAGTGG	GGCTAGCTACAACGA	TTCATTGA	33750
9056	1974	GGAACUUU G	CAAGGUCC	13369	GGACCTTG	GGCTAGCTACAACGA	AAAGTTCC	33751
9061	1969	UUUGCAAG G	UCCAUCUG	13370	CGGATGGA	GGCTAGCTACAACGA	CTTGCAAA	33752
9069	1961	GUCCAUCU G	UGCCAGUG	13371	CACTGGCA	GGCTAGCTACAACGA	GGATGGAC	33753
9071	1959	CCAUCUGU G	CCAGUGUA	13372	TACACTGG	GGCTAGCTACAACGA	ACGGATGG	33754
9075	1955	CCGUGCCA G	UGUACUGC	13373	GCAGTACA	GGCTAGCTACAACGA	TGGCACGG	33755
9077	1953	GUGCCAGU G	UACUGCAA	13374	TTCAGTA	GGCTAGCTACAACGA	ACTGGCAC	33756
9082	1948	AGUGUACU G	CAAUCCA	13375	TGGAATTG	GGCTAGCTACAACGA	AGTACACT	33757
9099	1931	ACACCACA G	UGCCGUGA	13376	TCACGGCA	GGCTAGCTACAACGA	TGTGTGTG	33758
9101	1929	ACCACAGU G	CCGUGACC	13377	GGTCACGG	GGCTAGCTACAACGA	ACTGTGGT	33759

9608	1422	UAGUUUCC G UGCGACUC	13441	GAGTCGCA GGCTAGCTACAACGA GGAAACTA	33823
9610	1420	GUUUCCGU G CGACUCCA	13442	TGGAGTCG GGCTAGCTACAACGA ACGGAAAC	33824
9621	1409	ACUCCACA G UAGUUGGU	13443	ACCAACTA GGCTAGCTACAACGA TGTGGAGT	33825
9624	1406	CCACAGUA G UUGGUCCA	13444	TGGACCAA GGCTAGCTACAACGA TACTGTGT	33826
9628	1402	AGUAGUUG G UCCAUGGA	13445	TCCATGGA GGCTAGCTACAACGA CAACTACT	33827
9645	1385	CAAAAUG G CCACUUCG	13446	CGAAGTGG GGCTAGCTACAACGA CATTTTGT	33828
9653	1377	GCCACUUC G UACUUGAU	13447	ATCAAGTA GGCTAGCTACAACGA GAAAGTGGC	33829
9678	1352	UCAAGAUG G UUCUUCU	13448	AGGAAGAA GGCTAGCTACAACGA CATCTTGA	33830
9690	1340	UUCCUAU G CCUUGGUA	13449	TACCAAGG GGCTAGCTACAACGA AATAGGAA	33831
9696	1334	UUGCCUUG G UAGAGCAG	13450	CTGCTCTA GGCTAGCTACAACGA CAAGGCAA	33832
9701	1329	UUGGUAGA G CAGGCAA	13451	TTTGCCTG GGCTAGCTACAACGA TCTACCAA	33833
9705	1325	UAGAGCAG G CAAAUUUG	13452	CAAATTGT GGCTAGCTACAACGA CTGCTCTA	33834
9714	1316	CAAAUUG G CGCAUGUG	13453	CACATGCG GGCTAGCTACAACGA CAAATTGT	33835
9716	1314	AAUUUGGC G CAUGUGUC	13454	GACACATG GGCTAGCTACAACGA GCCAAATT	33836
9720	1310	UGGCGCAU G UGUCAAUG	13455	CATTGACA GGCTAGCTACAACGA ATGCGCCA	33837
9722	1308	GCGCAUGU G UCAAUGCU	13456	AGCATTTGA GGCTAGCTACAACGA ACATGCGC	33838
9728	1302	GUGUCAAU G CUUCCUU	13457	AAAGGAAG GGCTAGCTACAACGA ATTGACAC	33839
9737	1293	CUUCCUUU G CCAAUAA	13458	TTATTTGG GGCTAGCTACAACGA AAAGGAAG	33840
9749	1281	AAUAAUCC G CAGCCGUU	13459	AACGGCTG GGCTAGCTACAACGA GGATTATT	33841
9752	1278	AAUCCGCA G CCGUUGCC	13460	GGCAACGG GGCTAGCTACAACGA TGCGGATT	33842
9755	1275	CCGCAGCC G UUGCCCCA	13461	TGGGGCAA GGCTAGCTACAACGA GGCTGCGG	33843
9758	1272	CAGCCGUU G CCCCAGCC	13462	GGCTGGGG GGCTAGCTACAACGA AACGGCTG	33844
9764	1266	UUGCCCCA G CCCUGUC	13463	GACAGGGG GGCTAGCTACAACGA TGGGGCAA	33845
9770	1260	CAGCCCUU G UCCACCAC	13464	GTGGTGA GGCTAGCTACAACGA AGGGGCTG	33846
9784	1246	CACUCCUU G UCUGCACA	13465	TGTGCAGA GGCTAGCTACAACGA AAGGAGTG	33847
9788	1242	CCUUGUCU G CACACAAA	13466	TTTGTGTG GGCTAGCTACAACGA AGACAAGG	33848
9798	1232	ACACAAA G CUGGGUCA	13467	TGACCCAG GGCTAGCTACAACGA TTTTGTGT	33849
9803	1227	AAAGCUGG G UCAGCACG	13468	CGTGTGA GGCTAGCTACAACGA CCAGCTTT	33850
9807	1223	CUGGGUCA G CACGUUUG	13469	CAAACGTG GGCTAGCTACAACGA TGACCCAG	33851
9811	1219	GUCAGCAC G UUGUCAU	13470	ATGACAAA GGCTAGCTACAACGA GTGCTGAC	33852
9815	1215	GCACGUUU G UCAUUGUG	13471	CACAATGA GGCTAGCTACAACGA AAACGTGC	33853
9821	1209	UUGUCAU G UGAGCUUC	13472	GAAGCTCA GGCTAGCTACAACGA AATGACAA	33854
9825	1205	CAUUGUGA G CUUCUCCC	13473	GGGGAAG GGCTAGCTACAACGA TCACAATG	33855
9837	1193	CUCCAUUG G UCGGGCAC	13474	GTGCCCCA GGCTAGCTACAACGA CATGGGAG	33856
9842	1188	AUGGUCGG G CACGCAGC	13475	GCTGCGTG GGCTAGCTACAACGA CCGACCAT	33857
9846	1184	UCGGGCAC G CAGCUUUG	13476	CAAAGCTG GGCTAGCTACAACGA GTGCCCGA	33858
9849	1181	GGCACGCA G CUUUGGUG	13477	CACCAAAG GGCTAGCTACAACGA TGCGTGCC	33859
9855	1175	CAGCUUUG G UGAGAGA	13478	TCTCTCCA GGCTAGCTACAACGA CAAAGCTG	33860
9866	1164	GAGAGAUC G CUGACGGU	13479	ACCGTCAG GGCTAGCTACAACGA GATCTCTC	33861
9873	1157	CGCUGACG G UAGCCAAA	13480	TTTGGCTA GGCTAGCTACAACGA CGTCAGCG	33862
9876	1154	UGACGUUA G CCAAUAG	13481	CTATTTGG GGCTAGCTACAACGA TACCGTCA	33863
9884	1146	GCCAAUA G CAAUAACU	13482	AGTTATTTG GGCTAGCTACAACGA TATTTGGC	33864
9893	1137	CAUAUAACU G CGGACCUC	13483	GAGGTCCG GGCTAGCTACAACGA AGTTATTG	33865
9903	1127	GGACCUCU G CCAGGUUG	13484	CAACCTGG GGCTAGCTACAACGA AGAGGTCC	33866
9908	1122	UCUGCCAG G UUGACCGC	13485	GCGGTCAA GGCTAGCTACAACGA CTGGCAGA	33867
9915	1115	GGUUGACC G CCUCCAUA	13486	TATGGAGG GGCTAGCTACAACGA GGTCAACC	33868
9945	1085	CAUCGAUG G UAGGCUUG	13487	CAAGCCTA GGCTAGCTACAACGA CATCGATG	33869
9949	1081	GAUGGUAG G CUUGUCCU	13488	AGGACAAG GGCTAGCTACAACGA CTACCATC	33870
9953	1077	GUAGGCUU G UCCUUAUA	13489	TCTAAGGA GGCTAGCTACAACGA AAGCCTAC	33871
9969	1061	ACAUGAUA G UCACGCAG	13490	CTGCGTGA GGCTAGCTACAACGA TATCATGT	33872
9974	1056	AUAGUCAC G CAGCUGUC	13491	GACAGCTG GGCTAGCTACAACGA GTGACTAT	33873
9977	1053	GUCACGCA G CUGUCGCC	13492	GGCGACAG GGCTAGCTACAACGA TGCGTGAC	33874
9980	1050	ACGCAGCU G UCGCCUUC	13493	GAAGGCGA GGCTAGCTACAACGA AGCTGCGT	33875
9983	1047	CAGCUGUC G CCUUCGAG	13494	CTCGAAGG GGCTAGCTACAACGA GACAGCTG	33876
10008	1022	CCACCCAU G UUGCUCCA	13495	TGGAGCAA GGCTAGCTACAACGA ATGGGTGG	33877
10011	1019	CCCAUGU G CUCCAGAC	13496	GTCTGGAG GGCTAGCTACAACGA AACATGGG	33878
10034	996	UCCAAGAA G UCUCUGUU	13497	AACAGAGA GGCTAGCTACAACGA TTCTTGGA	33879
10040	990	AAGUCUCU G UUGCUCAU	13498	ATGAGCAA GGCTAGCTACAACGA AGAGACTT	33880
10043	987	UCUCUGUU G CUCAUUC	13499	GGAATGAG GGCTAGCTACAACGA AACAGAGA	33881
10055	975	AUCCAAG G CAGUUGAA	13500	TTCAACTG GGCTAGCTACAACGA CTTGGAAT	33882
10058	972	CCAAGGCA G UUGAAGCU	13501	AGCTTCAA GGCTAGCTACAACGA TGCCTTGG	33883
10064	966	CAGUUGAA G CUGUAAGC	13502	GCTTACAG GGCTAGCTACAACGA TTCAACTG	33884
10067	963	UUGAAGCU G UAAGCUGG	13503	CCAGCTTA GGCTAGCTACAACGA AGCTTCAA	33885

10550	480	CCUUGGAA G UUAGAGAG	13567	CTCTCTAA GGCTAGCTACAACGA TTCCAAGG	33949
10560	470	UAGAGAGG G UAACUGCU	13568	AGCAGTTA GGCTAGCTACAACGA CCTCTCTA	33950
10566	464	GGGUAACU G CUCCUACG	13569	CGTAGGAG GGCTAGCTACAACGA AGTTACCC	33951
10574	456	GCUCCUAC G CUGGCGAU	13570	ATCGCCAG GGCTAGCTACAACGA GTAGGAGC	33952
10578	452	CUACGCUG G CGAUCAGG	13571	CCTGATCG GGCTAGCTACAACGA CAGCGTAG	33953
10586	444	GCGAUCAG G CCAAUCAU	13572	ATGATTGG GGCTAGCTACAACGA CTGATCGC	33954
10599	431	UCAUGACU G CAAUCCG	13573	CGGAATTG GGCTAGCTACAACGA AGTCATGA	33955
10608	422	CAAUCCG G UCUUCCU	13574	AGGAAAGA GGCTAGCTACAACGA CGGAATTG	33956
10630	400	UUUCUUU G UUUGAGC	13575	GCTCAAAA GGCTAGCTACAACGA AAAAGAAA	33957
10637	393	UGUUUUGA G CUCCGCCG	13576	CGGCGGAG GGCTAGCTACAACGA TCAAAACA	33958
10642	388	UGAGCUCC G CCGAUUGA	13577	TCAATCGG GGCTAGCTACAACGA GGAGCTCA	33959
10653	377	GAUUGAUA G CACUGGUC	13578	GACCAATG GGCTAGCTACAACGA TATCAATC	33960
10659	371	UAGCACUG G UCAAGGUC	13579	GACCTTGA GGCTAGCTACAACGA CAGTGCTA	33961
10665	365	UGGUCAAG G UCCCUAGU	13580	ACTAGGGA GGCTAGCTACAACGA CTTGACCA	33962
10672	358	GGUCCCUA G UUCUUCU	13581	AGAAGGAA GGCTAGCTACAACGA TAGGGACC	33963
10694	336	CUCAGAAG G UGUUUCU	13582	ATGAAACA GGCTAGCTACAACGA CTTCTGAG	33964
10696	334	CAGAAGGU G UUUCAUCG	13583	CGATGAAA GGCTAGCTACAACGA ACCTTCTG	33965
10704	326	GUUUCauc G CUGUUUGU	13584	ACAAACAG GGCTAGCTACAACGA GATGAAAC	33966
10707	323	UCAUCGCU G UUUGUUUG	13585	CAAACAAA GGCTAGCTACAACGA AGCGATGA	33967
10711	319	CGCUGUUU G UUUGUUCA	13586	TGAACAAA GGCTAGCTACAACGA AAACAGCG	33968
10715	315	GUUUGUUU G UUCACACC	13587	GGTGTGAA GGCTAGCTACAACGA AAACAAAC	33969
10738	292	UCGAUCCA G CACUGCUC	13588	GAGCAGTG GGCTAGCTACAACGA TGGATCGA	33970
10743	287	CCAGCACU G CUCGGGUC	13589	GACCCGAG GGCTAGCTACAACGA AGTGCTGG	33971
10749	281	CUGCUCGG G UCGGAGCA	13590	TGCTCCGA GGCTAGCTACAACGA CCGAGCAG	33972
10755	275	GGGUCGGA G CAAUUGCU	13591	AGCAATTG GGCTAGCTACAACGA TCCGACCC	33973
10761	269	GAGCAAUU G CUGUGAAC	13592	GTTACAG GGCTAGCTACAACGA AATTGCTC	33974
10764	266	CAAUUGCU G UGAACCUG	13593	CAGGTTCA GGCTAGCTACAACGA AGCAATTG	33975
10779	251	UGAAGAAC G CCAAGAGA	13594	TCTCTTGG GGCTAGCTACAACGA GTTCTTCA	33976
10788	242	CCAAGAGA G CCAACACA	13595	TGTGTTGG GGCTAGCTACAACGA TCTCTTGG	33977
10801	229	CACAAUUC G UAUUGGCC	13596	GGCCAATA GGCTAGCTACAACGA GATTTGTG	33978
10807	223	UCGUUUUG G CCCUUGC	13597	GCAAGGGG GGCTAGCTACAACGA CAATACGA	33979
10814	216	GGCCCCUU G CCGUCGAU	13598	ATCGACGG GGCTAGCTACAACGA AAGGGGCC	33980
10817	213	CCCUUGCC G UCGAUCAG	13599	CTGATCGA GGCTAGCTACAACGA GGCAAGGG	33981
10826	204	UCGAUCAG G CUACAUAU	13600	ATGTTGAG GGCTAGCTACAACGA CTGATCGA	33982
10836	194	UCAACAUA G CCCUCUUC	13601	GAAGAGGG GGCTAGCTACAACGA TATGTTGA	33983
10846	184	CCUCUUCA G UCCAAUCA	13602	TGATTGGA GGCTAGCTACAACGA TGAAGAGG	33984
10865	165	GACAACAC G CGGGGCAU	13603	ATGCCCGG GGCTAGCTACAACGA GTGTTGTC	33985
10870	160	CACGCGGG G CAUUCGCG	13604	GCGGAATG GGCTAGCTACAACGA CCCGCGTG	33986
10877	153	GGCAUUCG G CGUUUUG	13605	CTAAACG GGCTAGCTACAACGA GGAATGCC	33987
10879	151	CAUUCGCG G UUUUAGCA	13606	TGCTAAAA GGCTAGCTACAACGA GCGGAATG	33988
10885	145	GCGUUUUA G CAUAUUGA	13607	TCAATATG GGCTAGCTACAACGA TAAACCGC	33989
10896	134	UAUUGACA G CCCGCGUC	13608	GAGCCGGG GGCTAGCTACAACGA TGTCAATA	33990
10901	129	ACAGCCCG G CUCUUGCC	13609	GGCAAGAG GGCTAGCTACAACGA CGGGCTGT	33991
10907	123	CGGCUCUU G CCGGGCCC	13610	GGGCCCCG GGCTAGCTACAACGA AAGAGCCG	33992
10912	118	CUUGCCGG G CCCUCCUG	13611	CAGGAGGG GGCTAGCTACAACGA CCGGCAAG	33993
10921	109	CCCUCCUG G UUUCUUAG	13612	CTAAGAAA GGCTAGCTACAACGA CAGGAGGG	33994
10944	86	AGAUCUUC G UGCUAAGA	13613	TCTTAGCA GGCTAGCTACAACGA GAAGATCT	33995
10946	84	AUCUUCGU G CUAAGAAA	13614	TTTCTTAG GGCTAGCTACAACGA ACGAAGAT	33996
10957	73	AAGAAACA G CUCGCACU	13615	AGTGCGAG GGCTAGCTACAACGA TGTTCCTT	33997
10961	69	AACAGCUC G CACUGUGU	13616	ACACAGTG GGCTAGCTACAACGA GAGCTGTT	33998
10966	64	CUCGCACU G UGUUAAU	13617	AATTAACA GGCTAGCTACAACGA AGTCCGAG	33999
10968	62	CGCAUGU G UUAUUGU	13618	ACAATTAA GGCTAGCTACAACGA ACAGTCG	34000
10975	55	UGUAAU G UUGUAAU	13619	ATTAACAA GGCTAGCTACAACGA AATTAACA	34001
10978	52	UAAUUGU G UUAUCCU	13620	AGGATTAA GGCTAGCTACAACGA AACAAATTA	34002
11002	28	ACUACUAA G UUUGUCAG	13621	CTGACAAA GGCTAGCTACAACGA TTAGTAGT	34003
11006	24	CUAAGUUU G UCAGCUCA	13622	TGAGCTGA GGCTAGCTACAACGA AAACCTAG	34004
11010	20	GUUUGUCA G CUCACACA	13623	TGTGTGAG GGCTAGCTACAACGA TGACAAAC	34005
11020	10	UCACACAG G CGAACUAC	13624	GTAGTTCC GGCTAGCTACAACGA CTGTGTGA	34006
76	10954	AGCAGAAG A UCUCUAG	13625	CTAGGAGA GGCTAGCTACAACGA CTTCTGCT	34007
101	10929	AGGUGUCA A UAUGCUGU	13626	ACAGCATA GGCTAGCTACAACGA TGACACCT	34008
146	10884	CUCCACUA A CCUCUAGU	13627	ACTAGAGG GGCTAGCTACAACGA TAGTGGAG	34009
165	10865	UUCUCCUG A CCUACAGC	13628	GCTGTAGG GGCTAGCTACAACGA CAGGGGAA	34010
202	10828	CACUUUAA A CCGCGGGG	13629	CCCCGCGG GGCTAGCTACAACGA TTAAAGTG	34011

1530	9500	AGGUGACA A CUUGUCCA	13693	TGGACAAG GGCTAGCTACAACGA	TGTCACCT	34075
1550	9480	CCCCUCUG A UCUUCUCU	13694	AGAGAAGA GGCTAGCTACAACGA	CAGAGGGG	34076
1563	9467	CUCUGGAG A UAACAUC	13695	GGATGTTA GGCTAGCTACAACGA	CTCCAGAG	34077
1566	9464	UGGAGAU A CAUCCAUG	13696	CATGGATG GGCTAGCTACAACGA	TATCTCCA	34078
1575	9455	CAUCCAUG A CGUUCUU	13697	AAGAACC GGGCTAGCTACAACGA	TGTGGATG	34079
1614	9416	CUUUCACA A CUUUGUGA	13698	TCACAAAG GGCTAGCTACAACGA	TGTGAAAG	34080
1622	9408	ACUUUGUG A CGAUAGGU	13699	ACCTATCG GGCTAGCTACAACGA	CACAAAGT	34081
1625	9405	UUGUGACG A UAGGUGAG	13700	CTCACCTA GGCTAGCTACAACGA	CGTCACAA	34082
1638	9392	UGAGCUCA A UGAUGGCC	13701	GGCCATCA GGCTAGCTACAACGA	TGAGCTCA	34083
1641	9389	GCUCAAUG A UGCCCCUG	13702	CAGGGCCA GGCTAGCTACAACGA	CATTGAGC	34084
1655	9375	CUGGCAAG A CGCCGAUG	13703	CATCGGCG GGCTAGCTACAACGA	CTTGCCAG	34085
1661	9369	AGACGCCG A UGUUCCCC	13704	GGGGAACA GGCTAGCTACAACGA	CGGCGTCT	34086
1719	9311	CUCUCGUG A UGCGGGUG	13705	CACCCGCA GGCTAGCTACAACGA	CACGAGAG	34087
1755	9275	CAGCAUAG A UCUUGCCC	13706	GGGCAAGA GGCTAGCTACAACGA	CTATGCTG	34088
1779	9251	GGGUGCCA A CUUCACGC	13707	GCGTGAAG GGCTAGCTACAACGA	TGGCACCC	34089
1791	9239	CACGCAGG A UGUAACCC	13708	GGGTTACA GGCTAGCTACAACGA	CCTGCGTG	34090
1796	9234	AGGAUGUA A CCCAGUUU	13709	AAACTGGG GGCTAGCTACAACGA	TACATCCT	34091
1824	9206	AGCCUCG A CACCUCCU	13710	AGGAGGTG GGCTAGCTACAACGA	CGAGGGCT	34092
1874	9156	UUGAGAAA A CCCAGAGC	13711	GCTCTGGG GGCTAGCTACAACGA	TTTCTCAA	34093
1888	9142	AGCCUCGA A CUCCAGAA	13712	TTCTGGAG GGCTAGCTACAACGA	TCGAGGCT	34094
1918	9112	CCACAUGA A CCAAUUGG	13713	CCATTTGG GGCTAGCTACAACGA	TCATGTGG	34095
1923	9107	UGAACCAG A UGGCUCUG	13714	CAGAGCCA GGCTAGCTACAACGA	TTGGTTCA	34096
1951	9079	CUUUCGGA A CUCUCCGG	13715	CAGGAGAG GGCTAGCTACAACGA	TCGGAAGG	34097
1992	9038	UGUUGUAA A UGCAAGUG	13716	CACCTGCA GGCTAGCTACAACGA	TTACAACA	34098
2003	9027	CAAGUGUG A CAUUCCCC	13717	GGGGAATG GGCTAGCTACAACGA	CACACTTG	34099
2018	9012	CCCCGCAG A UGUGCCUC	13718	GAGGCACA GGCTAGCTACAACGA	CTGCGGGG	34100
2053	8977	CUCCCAA A UUUUGGAU	13719	ATCCAAAA GGCTAGCTACAACGA	TTTGGGAG	34101
2060	8970	AAUUUUGG A UCUUCAAC	13720	GTTGAAGA GGCTAGCTACAACGA	CCAAAATT	34102
2067	8963	GAUCUUCA A CUGCUUCU	13721	AGAAGCAG GGCTAGCTACAACGA	TGAAGATC	34103
2093	8937	CUCCAUG A UUCUGCUC	13722	GAGCAGAA GGCTAGCTACAACGA	CAATGGAG	34104
2107	8923	CUCUCAA A CAUGGCAC	13723	GTGCCATG GGCTAGCTACAACGA	TTGAAGAG	34105
2136	8894	UGCUGUUG A CCUUCUU	13724	AAGAAAGG GGCTAGCTACAACGA	CAACAGCA	34106
2149	8881	UCUUAUGA A UUCUCUC	13725	GAGAGGAA GGCTAGCTACAACGA	TCATAAGA	34107
2174	8856	AUUCUGGG A CGUUUUUC	13726	GAAAAACG GGCTAGCTACAACGA	CCCAGAAT	34108
2194	8836	GGCCAAA A CGCCACA	13727	TGTGGGCG GGCTAGCTACAACGA	TTTTGGCC	34109
2203	8827	CGCCACA A CCAGUUGG	13728	CCAAGTGG GGCTAGCTACAACGA	TGTGGGCG	34110
2281	8749	CUCUUUGA A CACUCGCU	13729	AGCGAGTG GGCTAGCTACAACGA	TCAAAGAG	34111
2331	8699	UGGUGGUA A CAUUCGUG	13730	CACGAATG GGCTAGCTACAACGA	TACCACCA	34112
2340	8690	CAUUCGUG A UGGUGUCC	13731	GGACACCA GGCTAGCTACAACGA	CACGAATG	34113
2370	8660	GGAGCCUG A CCACUCCA	13732	TGGAGTGG GGCTAGCTACAACGA	CAGGCTCC	34114
2382	8648	CUCCAUG A CCAGCGAA	13733	TTGCTGGG GGCTAGCTACAACGA	CAATGGAG	34115
2390	8640	ACCAGCGA A CUGGCGGA	13734	TCCGCCAG GGCTAGCTACAACGA	TCGCTGGT	34116
2420	8610	ACAUCAUA A CUGCCGUG	13735	CACGGCAG GGCTAGCTACAACGA	TATGATGT	34117
2429	8601	CUGCCGUG A UAGUCCA	13736	TGGAACCA GGCTAGCTACAACGA	CACGGCAG	34118
2477	8553	CACGUCGA A CUGUACUC	13737	GAGTACAG GGCTAGCTACAACGA	TCGACGTG	34119
2502	8528	GUCGUUCA A UCCUGUUC	13738	GAACAGGA GGCTAGCTACAACGA	TGAACGAC	34120
2514	8516	UGUUCUUG A UUUUACUG	13739	CAGTAAAA GGCTAGCTACAACGA	CAAGAACA	34121
2657	8373	UUCACUGA A UGUACCAC	13740	GTGGTACA GGCTAGCTACAACGA	TCAGTGAA	34122
2681	8349	GAAGCUCG A CUCACCCA	13741	TGGGTGAG GGCTAGCTACAACGA	CGAGCTTC	34123
2690	8340	CUCACCCA A UACAUCUC	13742	GAGATGTA GGCTAGCTACAACGA	TGGGTGAG	34124
2708	8322	UGCGUGGA A UUCGUGA	13743	TCACGGAA GGCTAGCTACAACGA	TCCACGCA	34125
2730	8300	GGUUUCUG A CCAGUCCC	13744	GGGACTGG GGCTAGCTACAACGA	CAGAAACC	34126
2778	8252	UCUCUAUG A CUUUCGGC	13745	GCCGAAAG GGCTAGCTACAACGA	CATAGAGA	34127
2815	8215	CACGCAA A UUCCCUUG	13746	CAAGGGAA GGCTAGCTACAACGA	TTTGGCTG	34128
2847	8183	AGUCCUCA A CCAUUUCA	13747	TGAAATGG GGCTAGCTACAACGA	TGAGGACT	34129
2859	8171	UUUCAAGG A CCCGAUUC	13748	GATTCCGG GGCTAGCTACAACGA	CCTTGAAA	34130
2865	8165	GGACCCGA A UGUCCUA	13749	TAGGACGA GGCTAGCTACAACGA	TCGGGTCC	34131
2883	8147	GCUCUUCA A CCUCAGCA	13750	TGCTGAGG GGCTAGCTACAACGA	TGAAGAGC	34132
2896	8134	AGCACUUG A CGAGGACU	13751	AGTCCTCG GGCTAGCTACAACGA	CAAGTGCT	34133
2902	8128	UGACGAGG A CUCUCCGA	13752	TCGGAGAG GGCTAGCTACAACGA	CCTCGTCA	34134
2910	8120	ACUCUCCG A UGUACAA	13753	TTGTGACA GGCTAGCTACAACGA	CGGAGAGT	34135
2933	8097	GUGUCACA A CACUCAGA	13754	TCTGAGTG GGCTAGCTACAACGA	TGTGACAC	34136
2953	8077	UCUGUAGA A CACAUCCA	13755	TGGATGTG GGCTAGCTACAACGA	TCTACAGA	34137

4070	6960	CCAAACAA A CUGCUUUAU	13819	ATAAGCAG GGCTAGCTACAACGA TTGTTTGG	34201
4103	6927	UCUAGCCA A CCCAUCUC	13820	GAGATGGG GGCTAGCTACAACGA TGGCTAGA	34202
4143	6887	GGGUCAUG A CACAAAU	13821	GATTTGTG GGCTAGCTACAACGA CATGACCC	34203
4149	6881	UGACACAA A UCAGGAAC	13822	GTTCTGTA GGCTAGCTACAACGA TTGTGTCA	34204
4156	6874	AAUCAGGA A CACGGCUA	13823	TAGCCGTG GGCTAGCTACAACGA TCCTGATT	34205
4184	6846	GUCUGCGA A CGUUGCUU	13824	AAGCAACG GGCTAGCTACAACGA TCGCAGAC	34206
4206	6824	GCUCAGGA A UUAGCACA	13825	TGTGCTAA GGCTAGCTACAACGA TCCTGAGC	34207
4215	6815	UUAGCACA A UCAUCAAG	13826	CTTGATGA GGCTAGCTACAACGA TGTGCTAA	34208
4240	6790	GAGCAGCA A CAUUCGCG	13827	CCGGAATG GGCTAGCTACAACGA TGCTGCTC	34209
4251	6779	UUCCGGCG A UCUUCGUU	13828	AACGAAGA GGCTAGCTACAACGA CGCCGGAA	34210
4266	6764	UUCCUGGA A CUUCAGCC	13829	GGCTGAAG GGCTAGCTACAACGA TCCAGGAA	34211
4280	6750	GCCAUCCA A CAGAAAAA	13830	TTTTTCTG GGCTAGCTACAACGA TGGATGGC	34212
4296	6734	AGGUCGCG A CUCCCAAG	13831	CTTGGGAG GGCTAGCTACAACGA CGCGACCT	34213
4305	6725	CUCCCAAG A CAGCGCCU	13832	AGGCGCTG GGCTAGCTACAACGA CTTGGGAG	34214
4319	6711	CCUCCCAA A CCUAUCUU	13833	AAGATAGG GGCTAGCTACAACGA TTGGGAGG	34215
4332	6698	UCUUUCCA A UGCCCUUC	13834	GAAGGGCA GGCTAGCTACAACGA TGGAAAGA	34216
4360	6670	GAGGAAGA A UACUCCCA	13835	TGGGAGTA GGCTAGCTACAACGA TCTTCCTC	34217
4384	6646	CACACUCA A UAAGGCAA	13836	TTGCCTTA GGCTAGCTACAACGA TGCTGTG	34218
4392	6638	AUAAGGCA A UCAAGGCA	13837	TGCCTTGA GGCTAGCTACAACGA TGCCTTAT	34219
4401	6629	UCAAGGCA A UUGUCUGA	13838	TCAGACAA GGCTAGCTACAACGA TGCCTTGA	34220
4476	6554	UGGCCACA A CGUACAUG	13839	CATGTACG GGCTAGCTACAACGA TGTGGCCA	34221
4539	6491	UUCCCGA A CCUCAUUG	13840	CATTGAGG GGCTAGCTACAACGA TCTGGGAA	34222
4545	6485	GAACCUCA A UGAGCCCU	13841	AGGGCTCA GGCTAGCTACAACGA TGAGGTTT	34223
4562	6468	AUCUGAGA A CGUUUUC	13842	GGAAAACG GGCTAGCTACAACGA TCTCAGAT	34224
4588	6442	GUCCUUGA A CGCCUUA	13843	TAAAGGCG GGCTAGCTACAACGA TCAAGGAC	34225
4607	6423	GCCUGGUG A UCCGAGUA	13844	TACTCGGA GGCTAGCTACAACGA CACGAGGC	34226
4629	6401	UGGCGUCA A UCCAGCGC	13845	GCGCTGGA GGCTAGCTACAACGA TGAGGCCA	34227
4647	6383	GCCUCAGA A UCUUCCUU	13846	AAGGAAGA GGCTAGCTACAACGA TCTGAGGC	34228
4671	6359	GCUUCGUG A UGACUUC	13847	GGAAGTCA GGCTAGCTACAACGA CACGAAGC	34229
4674	6356	UCGUGAUG A CUUCCACU	13848	AGTGAAG GGCTAGCTACAACGA CATCACGA	34230
4701	6329	CUUCUAAA A UUGUGUUU	13849	AAACACAA GGCTAGCTACAACGA TTTAGAAG	34231
4718	6312	GUCCUAGG A CCAUCAA	13850	TTTGATGG GGCTAGCTACAACGA CCTAGGAC	34232
4750	6280	GUGGUUAG A CACUCCAG	13851	CTGGAGTG GGCTAGCTACAACGA CATACCAC	34233
4767	6263	CCGUGCA A CCUUGUAA	13852	TTACAAGG GGCTAGCTACAACGA TGCACGG	34234
4785	6245	CCAGCCAA A CUGGCAGA	13853	TCTGCCAG GGCTAGCTACAACGA TTGCTGG	34235
4793	6237	ACTUGGCAG A UCUGCAGU	13854	ACTGCAGA GGCTAGCTACAACGA CTGCCAGT	34236
4807	6223	AGUCCUCA A CAGUCCA	13855	TGGAAGTG GGCTAGCTACAACGA TGAGGACT	34237
4894	6136	UUGGUAGA A UUGAGCGA	13856	TCGCTCAA GGCTAGCTACAACGA TCTACCAA	34238
4902	6128	AUUGAGCG A UCAGUCCG	13857	CGGACTGA GGCTAGCTACAACGA CGTCAAT	34239
4923	6107	GCAUGUUG A UGUUGUCC	13858	GGACAACA GGCTAGCTACAACGA CAACATGC	34240
4938	6092	CCAGCAUG A UUCGUGCC	13859	GGCACGAA GGCTAGCTACAACGA CATGCTGG	34241
4955	6075	UCAGUCCA A UGGGCGAA	13860	TTCGCCCA GGCTAGCTACAACGA TGGAGTGA	34242
4997	6033	CCCCAUA A CAGUACUC	13861	GGTACTG GGCTAGCTACAACGA TATGGGGG	34243
5013	6017	CAUCACCA A CUUGCGAC	13862	GTCGCAAG GGCTAGCTACAACGA TTGTGATG	34244
5020	6010	AACUUGCG A CGGAUUUC	13863	GAAATCCG GGCTAGCTACAACGA CGCAAGTT	34245
5024	6006	UGCGACGG A UUUCUACC	13864	GGTAGAAA GGCTAGCTACAACGA CCGTCGCA	34246
5034	5996	UUCUACCG A UACGUCCA	13865	TGGACGTA GGCTAGCTACAACGA CGGTAGAA	34247
5077	5953	CACUGCAG A UGGUUCUC	13866	GAGAACCA GGCTAGCTACAACGA CTGCAGTG	34248
5091	5939	CUCCAGG A UCACUCUC	13867	GAGAGTGA GGCTAGCTACAACGA CCTGGGAG	34249
5118	5912	CUGUUAUG A UGGUUGGU	13868	ACCAACCA GGCTAGCTACAACGA CATAACAG	34250
5148	5882	GGCUGUCA A UCACCCUG	13869	CAGGTGA GGCTAGCTACAACGA TGACAGCC	34251
5185	5845	CAUUCAG A UAUGUCUG	13870	CAGACATA GGCTAGCTACAACGA CTGAAATG	34252
5199	5831	CUGUUGUG A UAACAAAG	13871	CTTTGTGA GGCTAGCTACAACGA CACAACAG	34253
5202	5828	UUGUGAUA A CAAAGUCC	13872	GGACTTTG GGCTAGCTACAACGA TATCACAA	34254
5213	5817	AAGUCCA A UCAUCGUU	13873	AACGATGA GGCTAGCTACAACGA TGGGACTT	34255
5251	5779	CUCGUACG A CUUUCUGU	13874	ACAGAAAG GGCTAGCTACAACGA CGTACGAG	34256
5263	5767	UCUGUUA A UUGGACUA	13875	TAGTCCAA GGCTAGCTACAACGA TGAACAGA	34257
5268	5762	UCAAUUGG A CUACUUUC	13876	GAAAGTAG GGCTAGCTACAACGA CCAATTGA	34258
5304	5726	AAAGGGCA A UCUCUUC	13877	GAATGAGA GGCTAGCTACAACGA TGCCCTTT	34259
5322	5708	CCAUCUUG A CACUAGGC	13878	GCCTAGTG GGCTAGCTACAACGA CAAGATTG	34260
5335	5695	AGGCACAA A CCAAACCG	13879	CGGTTTGG GGCTAGCTACAACGA TTGTGCCT	34261
5340	5690	CAAACCAA A CCGUCUUC	13880	GAAGACGG GGCTAGCTACAACGA TTGTTTGG	34262
5364	5666	AUUCUGUG A UCCAUUCG	13881	CGAATGGA GGCTAGCTACAACGA CACAGAAT	34263

Table XI

6708	4322	GCCCCGCG A UAGUCAU	13945	AATGACTA GGCTAGCTACAACGA CGCGGGGC	34327
6720	4310	UCAUUGGA A UGGCCAUG	13946	CATGGCCA GGCTAGCTACAACGA TCCAATGA	34328
6735	4295	UGGAGUCA A UGUCAAGC	13947	GCTTGACA GGCTAGCTACAACGA TGAATCCA	34329
6759	4271	GCCCUCCG A CGAUGGCA	13948	TGCCATCG GGCTAGCTACAACGA CGGAGGGC	34330
6762	4268	CUCCGACG A UGGCAAAC	13949	GTTCGCCA GGCTAGCTACAACGA CGTCGGAG	34331
6769	4261	GAUGGCAA A CAUUAAGC	13950	GCCTAATG GGCTAGCTACAACGA TTGCCATC	34332
6780	4250	UUAGGCCG A CAGCUGUC	13951	GACAGCTG GGCTAGCTACAACGA CGGCCTAA	34333
6827	4203	CGGUUGGG A UCACAUGC	13952	GCATGTGA GGCTAGCTACAACGA CCAACCG	34334
6837	4193	CACAUGCA A UCAGUCCA	13953	TGGACTGA GGCTAGCTACAACGA TGCATGTG	34335
6855	4175	CAGCAAGG A UCAUGGGG	13954	CCCCATGA GGCTAGCTACAACGA CCTTGTCT	34336
6902	4128	CAUAGCAG A CUUGCUC	13955	GGAGCAAG GGCTAGCTACAACGA CTGCTATG	34337
6945	4085	UCUCCUG A UCAAGCUG	13956	CAGCTTGA GGCTAGCTACAACGA CAGGGAGA	34338
6963	4067	CUAUCCG A CCAUCAAC	13957	GTTGATGG GGCTAGCTACAACGA CGGAATAG	34339
6970	4060	GACCAUCA A CAGCAGUA	13958	TACTGCTG GGCTAGCTACAACGA TGATGGTC	34340
6995	4035	ACAUCCAG A UUCAAGCA	13959	TGCTTGAA GGCTAGCTACAACGA CTGGATGT	34341
7038	3992	GCAGCGGA A CAACCACG	13960	CGTGGTTG GGCTAGCTACAACGA TCCGCTGC	34342
7041	3989	GCGGAACA A CCACGUUU	13961	AAACGTGG GGCTAGCTACAACGA TGTTCGCG	34343
7051	3979	CACGUUUG A UGUCGUUG	13962	CAACGACA GGCTAGCTACAACGA CAAACGTG	34344
7063	3967	CGUUGUGA A UGUUAJGG	13963	CCATAACA GGCTAGCTACAACGA TCACAACG	34345
7103	3927	GCCAGUGA A UUCAACAC	13964	GTGTTGAA GGCTAGCTACAACGA TCACTGGC	34346
7108	3922	UGAAUUCA A CACAUCAG	13965	CTGATGTG GGCTAGCTACAACGA TGAATTCA	34347
7119	3911	CAUCAGGG A UCUCCAG	13966	CTGGGAGA GGCTAGCTACAACGA CCCTGATG	34348
7134	3896	AGAGCAGA A UUUGGCGG	13967	CGCCAAA GGCTAGCTACAACGA TCTGTCTT	34349
7151	3879	GCAUCGUG A UAAGCCAU	13968	ATGGCTTA GGCTAGCTACAACGA CACGATGC	34350
7170	3860	GAAAGAAA A CAGCCGCC	13969	GGCGGCTG GGCTAGCTACAACGA TTTCTTTC	34351
7180	3850	AGCGCCA A CAUACA	13970	GTGTTGATG GGCTAGCTACAACGA TGGCGGCT	34352
7186	3844	CAACAUCA A CAAAANGU	13971	ACATTTTG GGCTAGCTACAACGA TGATGTTG	34353
7191	3839	UCAACAAA A UGUUCUCC	13972	GGAGAACA GGCTAGCTACAACGA TTTGTTGA	34354
7225	3805	UUUGAGAA A CGAUGCCA	13973	TGGCATCG GGCTAGCTACAACGA TTCTCAA	34355
7228	3802	GAGAAACG A UGCCACCA	13974	TGGTGGCA GGCTAGCTACAACGA CGTTTCTC	34356
7240	3790	CACCAUAA A CACUGGUU	13975	AACCAGTG GGCTAGCTACAACGA TTATGGTG	34357
7298	3732	CCUCCCGA A UUAGAUUC	13976	GAATCTAA GGCTAGCTACAACGA TCGGGAGG	34358
7303	3727	CGAAUUAG A UUCUGCGA	13977	TCGAGAAA GGCTAGCTACAACGA CTAATTCT	34359
7329	3701	CCACCAAG A UGACAUAG	13978	CTATGTCA GGCTAGCTACAACGA CTTGGTGG	34360
7332	3698	CCAAGAUG A CAUAGCGU	13979	ACGCTATG GGCTAGCTACAACGA CATCTTGG	34361
7342	3688	AUAGCGUA A CACAUCAG	13980	CTGATGTG GGCTAGCTACAACGA TACGCTAT	34362
7359	3671	UGUAAGUA A UGCCCCCA	13981	TGGGGGCA GGCTAGCTACAACGA TACTTACA	34363
7369	3661	GCCCCCAA A CACCAGGA	13982	TCTGTTG GGCTAGCTACAACGA TTGGGGGC	34364
7377	3653	ACACCAGG A CUAGCAGA	13983	TCGTGTAG GGCTAGCTACAACGA CTTGGTGT	34365
7389	3641	GCAGAGCA A UCAGUAUA	13984	TATACTGA GGCTAGCTACAACGA TGCTCTGC	34366
7410	3620	GCAUGCUG A UCUGGGCU	13985	AGCCAAGA GGCTAGCTACAACGA CAGCATGC	34367
7437	3593	UGCGAAGG A CCUCCUGG	13986	CCAGGAGG GGCTAGCTACAACGA CCTTCGCA	34368
7456	3574	GGCCAAGA A CACGACCA	13987	TGTCGTG GGCTAGCTACAACGA TCTTGGCC	34369
7461	3569	AGAACACG A CCAGAAGG	13988	CCTTCTGG GGCTAGCTACAACGA CGTGTCTT	34370
7474	3556	AAGGCCA A CUGAAAAG	13989	CTTTTCAG GGCTAGCTACAACGA TGGGCTTT	34371
7488	3542	AAGGGUCA A UCAUAUCA	13990	TGATATGA GGCTAGCTACAACGA TGACCTTT	34372
7519	3511	CACUUGUG A CUGCACGA	13991	TCGTGCAG GGCTAGCTACAACGA CACAAGTG	34373
7557	3473	GUGGUCUG A UCUCUAUA	13992	TATGGAGA GGCTAGCTACAACGA CAGACCAC	34374
7574	3456	CCAUACCA A CAGCCGCU	13993	AGCGGCTG GGCTAGCTACAACGA TGGTATGG	34375
7631	3399	CAGCACCA A UCUGUUAU	13994	ATAACAGA GGCTAGCTACAACGA TGGTGTCT	34376
7642	3388	UGUUAUCA A CUUCCGCG	13995	CCGGAAGG GGCTAGCTACAACGA TGATAACA	34377
7707	3323	UCAGGGUG A CCGUAGUU	13996	AACTACGG GGCTAGCTACAACGA CACCCTGA	34378
7727	3303	GGGCAGUA A UCGAAGUC	13997	GACTTCGA GGCTAGCTACAACGA TACTGCC	34379
7737	3293	CGAAGUCA A UCUCUACC	13998	GGTAGAGA GGCTAGCTACAACGA TGAATTCG	34380
7796	3234	GGUCUCCG A UUGUGAUU	13999	AATCACAA GGCTAGCTACAACGA CGGAGACC	34381
7802	3228	CGAUUGUG A UUGCUUCG	14000	CGAAGCAA GGCTAGCTACAACGA CACAATCG	34382
7827	3203	CCAGUGUG A CUGGUUAU	14001	AATACCAG GGCTAGCTACAACGA CACACTGG	34383
7854	3176	UCUCAAGG A UUCAUCG	14002	CGATGGAA GGCTAGCTACAACGA CCTTGAGA	34384
7897	3133	CGUACAUG A UUUGACUU	14003	AAGTCAA GGCTAGCTACAACGA CATGTACG	34385
7902	3128	AUGAUUUG A CUUCACCC	14004	GGGTGAAG GGCTAGCTACAACGA CAAATCAT	34386
7914	3116	CACCCAGA A CUGCCCUU	14005	AAGGGCAG GGCTAGCTACAACGA TCTGGGTG	34387
7956	3074	UGCUUUCA A UCCAAUAG	14006	CTATTGGA GGCTAGCTACAACGA TGAAAGCA	34388
7961	3069	UCAAUCCA A UAGGACAG	14007	CTGTCCTA GGCTAGCTACAACGA TGGATTGA	34389

9085	1945	GUACUGCA A UUCCAACA	14071	TGTTGGAA GGCTAGCTACAACGA	TGCAGTAC	34453
9091	1939	CAAUUCCA A CACCACAG	14072	CTGTGGTG GGCTAGCTACAACGA	TGGAATTG	34454
9107	1923	GUGCCGUG A CCUGUGUC	14073	GACACAGG GGCTAGCTACAACGA	CACGGCAC	34455
9133	1897	CCCAAGAA A CUUGAAAG	14074	CTTTC AAG GGCTAGCTACAACGA	TTCTTGGG	34456
9149	1881	GCCUUUGA A CAGACGCC	14075	GGCGTCTG GGCTAGCTACAACGA	TCAAAGGC	34457
9153	1877	UUGAACAG A CGCCAUAG	14076	CTATGGCG GGCTAGCTACAACGA	CTGTTCAA	34458
9175	1855	UCCCUUCA A CUGCAAUU	14077	AATTGCAG GGCTAGCTACAACGA	TGAAGGGA	34459
9181	1849	CAACUGCA A UUUUCCA	14078	TGGA AAAA GGCTAGCTACAACGA	TGCAGTTG	34460
9209	1821	CACUUC AA A UGACCCGA	14079	TCGGGTCA GGCTAGCTACAACGA	TTGAAGTG	34461
9212	1818	UUCAAAUG A CCCGACGU	14080	ACGTCGGG GGCTAGCTACAACGA	CATTTGAA	34462
9217	1813	AUGACCCG A CGUCAACU	14081	AGTTGACG GGCTAGCTACAACGA	CGGGTCAT	34463
9223	1807	CGACGUCA A CUUGACAG	14082	CTGTCAAG GGCTAGCTACAACGA	TGACGTCG	34464
9228	1802	UCAACUUG A CAGUGUUG	14083	CAACACTG GGCTAGCTACAACGA	CAAGTTGA	34465
9244	1786	GCUUGAAA A UUCCACAG	14084	CTGTGGAA GGCTAGCTACAACGA	TTTCAAGC	34466
9255	1775	CCACAGGA A UGGCUCCA	14085	TGGAGCCA GGCTAGCTACAACGA	TCCTGTGG	34467
9275	1755	AAAGCUUG A UGCAGAGC	14086	GCTCTGCA GGCTAGCTACAACGA	CAAGCTTT	34468
9301	1729	UGAGCCCA A UGCUAUCA	14087	TGATAGCA GGCTAGCTACAACGA	TGGGCTCA	34469
9313	1717	UAUCACAG A CUGCUUCG	14088	CGAAGCAG GGCTAGCTACAACGA	CTGTGATA	34470
9340	1690	UUCCUCAA A CUCCAUA	14089	TAATGGAG GGCTAGCTACAACGA	TTGAGGAA	34471
9349	1681	CUCCAUA A CGUCUCUC	14090	GAGAGACG GGCTAGCTACAACGA	TAATGGAG	34472
9412	1618	GUCCAUGA A CCACUCAC	14091	GTGAGTGG GGCTAGCTACAACGA	TCATGGAC	34473
9422	1608	CACUCACG A UGGACCAA	14092	TTGGTCCA GGCTAGCTACAACGA	CGACGTG	34474
9426	1604	CACGAUGG A CCAAGAAC	14093	GTTCTTGG GGCTAGCTACAACGA	CCATCGTG	34475
9433	1597	GACCAAGA A CGUCUUUG	14094	CAAAGACG GGCTAGCTACAACGA	TCTTGGTC	34476
9447	1583	UUGUCCA A CAGUCAUC	14095	GATGACTG GGCTAGCTACAACGA	TGGAACAA	34477
9477	1553	UGGUGUCA A UCCUGAC	14096	GTCAGGGA GGCTAGCTACAACGA	TGACACCA	34478
9484	1546	AAUCCUG A CCGUGGUU	14097	AACCACGG GGCTAGCTACAACGA	CAGGGATT	34479
9558	1472	CAGGAGUG A UGCUGAAU	14098	ATTCAGCA GGCTAGCTACAACGA	CACTCCTG	34480
9565	1465	GAUGCUGA A UCUCUCCG	14099	CAGGGAGA GGCTAGCTACAACGA	TCAGCATC	34481
9588	1442	UGGCUCCA A CCUGUGUG	14100	CACACAGG GGCTAGCTACAACGA	TGGAGCCA	34482
9613	1417	UCCGUGCG A CUCCACAG	14101	CTGTGGAG GGCTAGCTACAACGA	CGACGGGA	34483
9636	1394	GUCCAUGG A CAAAAAUG	14102	CATTTTGG GGCTAGCTACAACGA	CCATGGAC	34484
9642	1388	GGACAAAA A UGGCCACU	14103	AGTGGCCA GGCTAGCTACAACGA	TTTTGTCC	34485
9660	1370	CGUACUUG A UAUUCUCU	14104	AGAGAATA GGCTAGCTACAACGA	CAAGTACG	34486
9675	1355	CUUCAAG A UGGUUCUU	14105	AAGAACCA GGCTAGCTACAACGA	CTGAAAG	34487
9709	1321	GCAGGCAA A UUGGGCGC	14106	GCGCCAAA GGCTAGCTACAACGA	TTGCCTGC	34488
9726	1304	AUGUGUCA A UGUUCCU	14107	AGGAAGCA GGCTAGCTACAACGA	TGACACAT	34489
9742	1288	UUUGCCAA A UAAUCCCG	14108	GCGGATTA GGCTAGCTACAACGA	TTGGCAAA	34490
9745	1285	GCCAAUA A UCCGCAGC	14109	GCTGCGGA GGCTAGCTACAACGA	TATTTGGC	34491
9863	1167	GUGGAGAG A UCGUGAC	14110	GTCAGCGA GGCTAGCTACAACGA	CTCTCCAC	34492
9870	1160	GAUCGCUG A CGGUAGCC	14111	GGCTACCG GGCTAGCTACAACGA	CAGCGATC	34493
9881	1149	GUAGCCAA A UAGCAUA	14112	TATTGCTA GGCTAGCTACAACGA	TTGGCTAC	34494
9887	1143	AAAUAGCA A UAACUGCG	14113	CGCAGTTA GGCTAGCTACAACGA	TGCTATTT	34495
9890	1140	UAGCAUA A CUGCGGAC	14114	GTCCG CAG GGCTAGCTACAACGA	TATTGCTA	34496
9897	1133	AACUGCGG A CCUCUGCC	14115	GGCAGAGG GGCTAGCTACAACGA	CCGCAGTT	34497
9912	1118	CCAGGUUG A CCGCCUCC	14116	GGAGGCGG GGCTAGCTACAACGA	CAACCTGG	34498
9942	1088	UCACAUCG A UGGUAGGC	14117	GCCTACCA GGCTAGCTACAACGA	CGATGTGA	34499
9961	1069	GUCCUUG A CAUGAUAG	14118	CTATCATG GGCTAGCTACAACGA	CTAAGGAC	34500
9966	1064	UAGACAUG A UAGUCACG	14119	CTGTACTA GGCTAGCTACAACGA	CATGTCTA	34501
9993	1037	CUUCGAGA A CCAAUCC	14120	GGATTTGG GGCTAGCTACAACGA	TCTCGAAG	34502
9998	1032	AGAACC AA A UCCACCCA	14121	TGGGTGGA GGCTAGCTACAACGA	TTGGTTCT	34503
10018	1012	UGCUC CAG A CACUCCUU	14122	AAGGAGTG GGCTAGCTACAACGA	CTGGAGCA	34504
10090	940	CAAAAGCA A UAGCACGA	14123	TCGTGCTA GGCTAGCTACAACGA	TGCTTTTG	34505
10098	932	AUAGCACG A CAAACACA	14124	TGTGTTTG GGCTAGCTACAACGA	CGTGCTAT	34506
10102	928	CACGACAA A CACAACUC	14125	GAGTTGTG GGCTAGCTACAACGA	TTGTCTGT	34507
10107	923	CAAAACA A CUCUCUGC	14126	GCAGAGAG GGCTAGCTACAACGA	TGTGTTTG	34508
10139	891	AGCAUCCA A CCAAUGAC	14127	GTCATTGG GGCTAGCTACAACGA	TGGATGCT	34509
10143	887	UCCAACCA A UGACGGCU	14128	AGCCGTCA GGCTAGCTACAACGA	TGGTTGGA	34510
10146	884	AACCAAUG A CGGUGGCC	14129	GGCAGCCG GGCTAGCTACAACGA	CATTGGTT	34511
10182	848	UCCUCAAG A UCCAUGAU	14130	ATCATGGA GGCTAGCTACAACGA	CTTGAGGA	34512
10189	841	GAUCCAUG A UUCUGUUU	14131	AAACAGAA GGCTAGCTACAACGA	CATGGATC	34513
10205	825	UUUACCAA A UACCUUGU	14132	ACAAGGTA GGCTAGCTACAACGA	TTGGTAAA	34514
10288	742	UGUCAGUG A CCUCCGAC	14133	GTCGGAGG GGCTAGCTACAACGA	CACTGACA	34515

Table XII

Table XII: WNV minus strand Amberzyme and Target Sequence

Pos	Pos (+str)	Substrate	Seq ID	Ribozyme	Ra Seq ID
10	11020	GAUCCUGU G UUCUCGCA	12272	UGCAGAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACAGGAUC	34557
16	11014	GUGUUCU G CACCACCA	12273	UGGUGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GAGAAACAC	34558
25	11005	CACCACCA G CCACCAU	12274	AAUGGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGGUGGUG	34559
34	10996	CCACCAU G UCGGCGCA	12275	UGCGCGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAUGGUGG	34560
38	10992	CAUUGUG G CGCACUGU	12276	ACAGUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGACAAUG	34561
40	10990	UUGUCGG G CACUGUGC	12277	GCACAGU GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GCCGACAA	34562
45	10985	GGCGCAU G UGCCGUGU	12278	ACACGGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGUGCGCC	34563
47	10983	CGCACUGU G CCGUGUGG	12279	CCACACGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACAGUGCG	34564
50	10980	ACUGUGC G UGUGGUG	12280	CAGCCACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGCACAGU	34565
52	10978	UGUGCGU G UGGCUGGU	12281	ACGAGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACGGCACA	34566
55	10975	GCCGUGU G CUGGUUGU	12282	ACAACAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CACACGGC	34567
59	10971	UGUGGUG G UUGUGCAG	12283	CUGCACAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CAGCCACA	34568
62	10968	GGCUGGU G UGCAGAGC	12284	GUUCUGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AACAGGCC	34569
64	10966	CUGGUUGU G CAGAGCAG	12285	CUGCUCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACAACCAG	34570
69	10961	UGUCGAG G CAGAAGAU	12286	AUCUUCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCUGCACA	34571
84	10946	AUCUCCUA G UCUAUCUCC	12287	GGGAUAGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAGGAGAU	34572
95	10935	UAUCCAG G UGUCAUA	12288	UAUUGACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUGGGUAU	34573
97	10933	UCCAGGU G UCAUAUG	12289	CAUAUUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACCUGGGA	34574
105	10925	GUCAUAU G CUGUUGU	12290	CAAAACAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUUAUGAC	34575
108	10922	AAUAUGU G UUUUGUG	12291	CAACAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCAUAU	34576
113	10917	GCUGUUU G UUGUGGUG	12292	CACCACAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAAACAGC	34577
116	10914	GUUUUGU G UGGUGUUU	12293	AAACACCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AACAAAAC	34578
119	10911	UUGUUGU G UGUUUUGU	12294	ACAAAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CACAACAA	34579
121	10909	GUUGUGU G UUUUGUGG	12295	CCACAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACCACAAC	34580
126	10904	GGUGUUU G UGGCACGG	12296	CCGUGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAAACACC	34581
129	10901	GUUUUGU G CACGGGUG	12297	ACCCGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CACAAAAC	34582
136	10894	GGCACGG G UCUCACU	12298	AGUGGAGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCCGUGCC	34583
153	10877	AACCUUA G UCCUCCC	12299	GGGAAGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAGAGGUU	34584
172	10858	GACCUACA G CUUCAGUC	12300	GACUGAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUAGGUC	34585
178	10852	CAGCUUA G UCAGGUG	12301	CAGCCUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGAAGCUG	34586
183	10847	UCAGUCAG G CUGGGCG	12302	CGGCCAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUGACUGA	34587
188	10842	CAGGUGG G CCGUGCAC	12303	GUGCACGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCAGCCUG	34588
191	10839	GCUGGCC G UGCACUUU	12304	AAAGUGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGCCACGC	34589
193	10837	UGGGCGU G CACUUUA	12305	UUAAAGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACGGCCCA	34590
205	10825	UUUAACC G GGGGUCU	12306	AGACCCCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGUUUAAA	34591
210	10820	ACCGCGG G UCUCUCU	12307	AGAGGAGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCCGCGGU	34592

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501	10529	AACUCCG	G	UGGGGGA	12348	UCCCGCCA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CGGAAGUU	34633
504	10526	UUCGCGG	G	CGGGAACU	12349	AGUUCGCG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CACCGGAA	34634
518	10512	ACUCCCG	G	CCUGACUU	12350	AAGUCAGG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CGGGAAGU	34635
595	10435	ACUUUAU	G	CAUACUUA	12351	UAAUAUG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AUAAAAGU	34636
608	10422	CUUAUAU	G	UCUAUUUA	12352	UAAAUAAG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AUAUAAG	34637
637	10393	UAUCUAC	G	UACUGUGU	12353	ACACAGUA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UGUAGAU	34638
642	10388	ACAGUACU	G	UGUCCUCA	12354	UGAGGACA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AGUACUGU	34639
644	10386	AGUACUGU	G	UCCUCAAC	12355	GUUGAGGA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	ACAGUACU	34640
657	10373	CAACCAA	G	UUGUGUCU	12356	AGACACAA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UUUGGUUG	34641
660	10370	CCAAAGU	G	UGUCUUA	12357	UGAAGACA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AACUUUGG	34642
662	10368	AAAGUUGU	G	UCUUAUA	12358	UAUGAAGA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	ACAACUUU	34643
679	10351	UCUCUUUA	G	UAAUCUA	12359	UGAGUUUA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UAAAGAGA	34644
689	10341	GAACUAU	G	UAUCCAC	12360	GUGGAUUA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AUGAGUUC	34645
720	10310	CGAUAUU	G	CUCUGACU	12361	AGUCAGAG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AUUAUCG	34646
731	10299	CUGACUUG	G	UUGAUAGC	12362	GCUAUCAA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CAAGUCAG	34647
738	10292	GGUUGAUA	G	CCACCUGG	12363	CCAGGUGG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UAUCAACC	34648
749	10281	ACUUGAU	G	UUUUCUGC	12364	GCAGAAA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AUCCAGGU	34649
756	10274	UGUUUUU	G	CCCACGUG	12365	CACGUGGG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AGAAAACA	34650
762	10268	CUGCCAC	G	UGGCUCCG	12366	CCGAGCCA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GUGGGCAG	34651
765	10265	CCCACGUG	G	CUCGGGCU	12367	AGCCCGAG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CACGUGGG	34652
771	10259	UGGCUCCG	G	CUCUUGUG	12368	CACAAGAG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CCGAGCCA	34653
777	10253	GGGCUUU	G	UGCCAAUC	12369	GAUUGGCA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AGAGCCC	34654
779	10251	GCUCUUGU	G	CCAAUCAG	12370	CUGAUUGG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	ACAAGAGC	34655
788	10242	CCAUAUC	G	CUGCCACA	12371	UGGUGCAG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CUGAUUGG	34656
791	10239	AUCAAGGU	G	CCACACCA	12372	UGGUGUGG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AGCCUGAU	34657
803	10227	CACCAGAU	G	UCCUCUCG	12373	CGAGAGGA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AUCUGGUG	34658
811	10219	GUCCUCUC	G	UUUUCUG	12374	CAGGAAA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GAGAGGAC	34659
830	10200	UAUGGAC	G	UCACUCCA	12375	UGGAGUGA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GUCCAUUA	34660
852	10178	CCACUGGG	G	UUUUGUCU	12376	AGACAAA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CCCAGUGG	34661
857	10173	GGGUUUU	G	UCUCCAU	12377	AUGGAAGA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AAAACCCC	34662
893	10137	CAAAACG	G	UUCGAGAC	12378	GUCUGGAA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CGUGUUUG	34663
911	10119	UCCAACAU	G	UCCUCUGU	12379	ACAGAGGA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AUGUUUGA	34664
918	10112	UGUCCUUC	G	UUGUCAUC	12380	GAUGACAA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AGAGGACA	34665
921	10109	CCUCUGU	G	UCAUCCAC	12381	GUGGAUA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AACAGAGG	34666
939	10091	CUCUCCU	G	CAUGAUG	12382	CAUCCAUG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AGGAGGAG	34667
954	10076	UGGACCAC	G	UGGUUUU	12383	AAGAACCA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GUGGUCCA	34668
957	10073	ACCACGUG	G	UUCUCCG	12384	CGGAAGAA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CACGUGGU	34669
966	10064	UUCUCCG	G	UAGGACC	12385	GGUCCCUA	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CGGAAGAA	34670
990	10040	CAGGACA	G	CGGACAA	12386	UUGCUCG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UGUCCUG	34671
995	10035	ACAGCGA	G	CAAUUGC	12387	GCCAUUG	GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UCCGCUGU	34672

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1002	10028	AGCAAAUG G CGUUGGCC	12388	GGCCAAAG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CAUUUGCU	34673
1004	10026	CAAUUGG G UUGGCCAU	12389	AUGGCCAA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG GCCAUUUG	34674
1008	10022	UGGCGUUG G CCAUGAGC	12390	GCUCAUGG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CAACGCCA	34675
1015	10015	GGCCAUGA G CGCAGGU	12391	ACCUGCGG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UCAUGGCC	34676
1018	10012	CAUGAGCC G CAGGUCUC	12392	GAGACCUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG GGCUCAUG	34677
1022	10008	AGCCGCAG G UCUCUUCU	12393	AGAAGAGA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CUGCGGCU	34678
1031	9999	UCUCUUCU G UGGAAGUA	12394	UACUUCUA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG AGAAGAGA	34679
1037	9993	CUGUGGAA G UACAGAAG	12395	CUUCUGUA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UUCCACAG	34680
1045	9985	GUACAGAA G CAGCCACA	12396	UGUGGCUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UUCUGUAC	34681
1048	9982	CAGAAGCA G CCACAUCU	12397	AGAUGUGG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UGCUCUG	34682
1059	9971	ACAUCUGG G CAUAAGAC	12398	GUCUUAUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CCAGAUGU	34683
1071	9959	AAGACUUA G CCAGACAA	12399	UUGUCUGG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UAAAGUCU	34684
1080	9950	CCAGACAA G CAGUGUCG	12400	CGACACUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UUGUCUGG	34685
1083	9947	GACAAGCA G UGUCCGGG	12401	CCGCGACA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UGCUCUG	34686
1085	9945	CAAGCAGU G UCGCGGAC	12402	GUCCGCGA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG ACUGCUG	34687
1088	9942	GCAGUGUC G CGGACGUU	12403	AACGUCUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG GACACUGC	34688
1094	9936	UCGCGGAC G UUCCAUCC	12404	GGAUGGAA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG GUCCGCGA	34689
1104	9926	UCCAUCUG G CCCUGGA	12405	UCCAGGGG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CGGAUGGA	34690
1118	9912	GGAGAUU G CGAGCUCU	12406	AGAGCUCG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG AUAUCUCC	34691
1122	9908	AUAUGCA G CUCUGCCU	12407	AGGCAGAG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UCGCAUUA	34692
1127	9903	CGAGCUCU G CCUACCAA	12408	UUGGUAGG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG AGAGCUCG	34693
1144	9886	UUAUCUCU G UCCUCGGC	12409	GCCGAGGA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG AGGAUGAA	34694
1151	9879	UGUCCUG G CAUGGAAC	12410	GUUCCAUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CGAGGACA	34695
1165	9865	AACCACCA G UGUUCUUC	12411	GAAGAACA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UGGUGGUU	34696
1167	9863	CCACCAGU G UUCUCCA	12412	UGGAAGAA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG ACUGGUGG	34697
1194	9836	UCAAUUCA G UGAAUUGG	12413	CCAUUUCA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UGAAUUGA	34698
1202	9828	GUGAAUUG G UUUGAGCA	12414	UGCUCAAA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CAUUUCAC	34699
1208	9822	UGGUUUGA G CAAAUUGG	12415	CCAUUUUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UCAAAACCA	34700
1222	9808	UGGAACCU G CUGCCAAU	12416	AUUGGCAG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG AGGUUCCA	34701
1225	9805	AACCUUGU G CCAAUCAU	12417	AUGAUUGG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG AGCAGGUU	34702
1242	9788	ACCAUCCA G UUGACGGU	12418	ACCGUCAA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UGGAUGGU	34703
1249	9781	AGUUGAGG G UUUCCACU	12419	AGUGGAAA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CGUCAACU	34704
1265	9765	UCUUGGAU G UCUUUGCG	12420	CGCAAAAG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG AUCCAAGA	34705
1271	9759	AUGUCUUU G CGAACCUU	12421	AAGGUUCG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG AAAGACAU	34706
1287	9743	UUGACAU G CAUUGAGG	12422	CCUCAUUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UAUUGUCA	34707
1298	9732	UUGAGGAA G UGGAGCGA	12423	UCGUUCCA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UUCUCUAA	34708
1303	9727	GAAGUGGA G CGAGGUGG	12424	CCACCUUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UCCACUUC	34709
1308	9722	GGAGCCAG G UGGCAAAAG	12425	CUUUGCCA GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CUCGCUCC	34710
1311	9719	GCGAGGUG G CAAAGCGA	12426	UCGCUUUG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG CACCUCCG	34711
1316	9714	GUGGCAAA G CGAUCGUC	12427	GACCAUCG GGAGGAAACUCCCUUUAAGGACAUCGUCUCCGG UUUGCCAC	34712

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1322	9708	AAGCGAUC G UCCAGGGG	12428	CCCCUGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GAUCGCUU	34713
1330	9700	GUCCAGGG G CUUUAACA	12429	UGGUAAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCCUGGAC	34714
1343	9687	ACCACACA G UCAUCUCC	12430	GGAGAUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUUGUGU	34715
1359	9671	CACUGACA G CCAUGCGG	12431	CCGCAUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUCAGUG	34716
1364	9666	ACAGCCAU G CGGUGAG	12432	CUCAGCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUGGCGUG	34717
1367	9663	GCCAUGCG G CUGAGUCU	12433	AGACUCAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGCAUGGC	34718
1372	9658	GCGGCUGA G UCUUUCUU	12434	AAAGAAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCAGCCGC	34719
1396	9634	CUCAAACA G CCAGGUCC	12435	GGACCCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUUUAG	34720
1401	9629	ACAGCCAG G UCCUGACU	12436	AGUCAGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUGGCTUG	34721
1414	9616	GACUUUGG G UCCUUUCC	12437	GGAAAGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCAAGGUC	34722
1428	9602	UCCCUUUU G UGAGUUUC	12438	GAAACUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAAAGGGA	34723
1432	9598	UUUUUGA G UUUCUCCA	12439	UGGAGAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCACAAAA	34724
1451	9579	UCAUCUGG G CCAUUCAC	12440	GUGAUUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCAGAUGA	34725
1486	9544	CCUCACCA G CUGGACGG	12441	CCGUCCAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGGUGAGG	34726
1494	9536	GUUGACG G CCAGGUUG	12442	CAACCCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGUCCAGC	34727
1499	9531	ACGGCCAG G UUGUGAA	12443	UUCACCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUGGCCGU	34728
1503	9527	CCAGGUUG G UGAAAGUG	12444	CACUUUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CAACCCUG	34729
1509	9521	UGGUGAAA G UGUUUAGG	12445	CUVAAAAC GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUUACACA	34730
1511	9519	GUGAAAGU G UUUAGGGC	12446	GCCUAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUUUCAC	34731
1518	9512	UGUUUAGG G CGUAGGUG	12447	CACCUACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUUAAACA	34732
1520	9510	UUUAGGGC G UAGGUGAC	12448	GUCACCUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GCCUAAA	34733
1524	9506	GGGCGUAG G UGACAAU	12449	AGUUUGUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUACGCC	34734
1534	9496	GACAAUUG G UCCACUCC	12450	GGAGUGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAGUUGUC	34735
1578	9452	CCAUGACG G UUCUUCCA	12451	UGGAAGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGUCAUGG	34736
1590	9440	UUCCAUCA G CAGCCGGG	12452	CCCGCCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGAUGGAA	34737
1593	9437	CAUCAGCA G CCGGGGCG	12453	GCGCCCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUGAUG	34738
1598	9432	GCAGCCGG G CGCAUCAC	12454	GUGAUGCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCGGCUGC	34739
1600	9430	AGCCGGGC G CAUCACUU	12455	AAGUGAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GCCCGGCU	34740
1619	9411	ACAACUUU G UGACGAUA	12456	UAUCGUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAAGUUGU	34741
1629	9401	GACGAUAG G UGAGCUCA	12457	UGAGCUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUAUCGUC	34742
1633	9397	AUAGGUGA G CUCAUAGA	12458	UCAUUGAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCACCUAU	34743
1644	9386	CAAUGAUG G CCCUGGCA	12459	UGCCAGGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CAUCAUUG	34744
1650	9380	UGGCCUUG G CAAGACGC	12460	GCGUCUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CAGGGCCA	34745
1657	9373	GGCAAGAC G CCGAUGUU	12461	AACAUCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GUCUUGCC	34746
1663	9367	ACGCCGAU G UUCGCCAU	12462	AUGGGGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUCCGGCU	34747
1675	9355	CCCAUGCA G CAGUCUAA	12463	UUGGAGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUGAUGGG	34748
1678	9352	AUCAAGCA G CUCAAGCA	12464	UGCUUGAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGCUUGAU	34749
1684	9346	CAGUCUAA G CACCUUAG	12465	CUAAGGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUGAGCUG	34750
1692	9338	GCACCUUA G CUUCAUUU	12466	AAAUGAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAAGGUGC	34751
1706	9324	UUUCCAA G UCAGCUCU	12467	AGAGCUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUGGAAAA	34752

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1710	9320	CCNAGUCA	G	CUCUCGUG	12468	CACGAGAG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UGACUUGG	34753
1716	9314	CAGCUCUC	G	UGAUGCGG	12469	CCGCAUCA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	GAGAGCUG	34754
1721	9309	CUGUGAU	G	CGGUGUC	12470	GACACCG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AUCACGAG	34755
1725	9305	UGAUGCGG	G	UGUCCAG	12471	CUGGGACA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	CCGCAUCA	34756
1727	9303	AUGCGGU	G	UCCAGCC	12472	GGCUGGA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	ACCCGCAU	34757
1733	9297	GUGUCCA	G	CCAGCUGU	12473	ACAGCUGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UGGACAC	34758
1737	9293	CCAGCCA	G	CUGUGUCA	12474	UGACACAG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UGGCUUGG	34759
1740	9290	AGCAGCU	G	UGUCAUCA	12475	UGAUGACA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AGCUGGCU	34760
1742	9288	CCAGCUGU	G	UCAUCAGC	12476	GTUGAUGA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	ACAGCUGG	34761
1749	9281	UGUCAUCA	G	CAUAGAUC	12477	GAUCUAUG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UGAUGACA	34762
1760	9270	UAGAUCUU	G	CCCCCAGG	12478	CCUGGGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AAGAUCUA	34763
1768	9262	GCCCCAG	G	CCGGGUGC	12479	GCACCCG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	CUGGGGC	34764
1773	9257	CAGGCCG	G	UGCCAACU	12480	AGUUGCA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	CCGSCCUG	34765
1775	9255	GGCCGGGU	G	CCAACUUC	12481	GAAGUUG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	ACCCGGCC	34766
1786	9244	AACUUCAC	G	CAGGAUGU	12482	ACAUCCUG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	GUGAAGUU	34767
1793	9237	CCAGGAU	G	UAACCCAG	12483	CUGGGUUA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AUCCUGCG	34768
1801	9229	GUAACCA	G	UUUUUGGA	12484	UCCAAAA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UGGGUUAC	34769
1811	9219	UUUUGGAG	G	CCCAAGCC	12485	GGCUUGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	CUCCAAAA	34770
1817	9213	AGGCCCAA	G	CCUUGAC	12486	GUCGAGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UUGGCCU	34771
1838	9192	CCUCCUGA	G	UUCUUUCU	12487	AGAAAGAA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UCAGGAGG	34772
1852	9178	UUCUCCAA	G	CCAGUGGU	12488	ACCACUGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UUGGAAGA	34773
1856	9174	CCAAGCCA	G	UGGUCUUC	12489	GAAGACCA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UGGCUUGG	34774
1859	9171	AGCCAGUG	G	UCUUCAUU	12490	AUAGAAGA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	CACUUGCU	34775
1881	9149	AACCCAGA	G	CCUUGAAC	12491	GUUCGAGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UCUGGGUU	34776
1898	9132	UCACAGAA	G	CGAGCUCC	12492	GGAGCUCG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UUUCUGGA	34777
1902	9128	GAAAGCGA	G	CUCCGAGC	12493	GCUCGGAG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UCGCUUUC	34778
1909	9121	AGCUCCGA	G	CCACAUGA	12494	UCAUGUGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UCGAGAGU	34779
1926	9104	ACCAAUG	G	CUCUGCUU	12495	AAGCAGAG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	CAUUGGU	34780
1931	9099	AUGGCUU	G	CUUCCUUU	12496	AAGGGAAG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AGAGCCAU	34781
1941	9089	UUCUCCUG	G	CCUUUCCG	12497	CGGAAAGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	CAAGGGAA	34782
1960	9070	CUCUCCGG	G	UUUUUUCU	12498	AGAAAAA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	CCGGAGAG	34783
1985	9045	CCCAUCAU	G	UGUAAAU	12499	AUUUACAA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AUGAUGGG	34784
1988	9042	AUCAUGUU	G	UAAAUGCA	12500	UGCAUUUA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AACAUGAU	34785
1994	9036	UUGUAAAU	G	CHAGUGUG	12501	CACACUUG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AUUUACAA	34786
1998	9032	AAUUGCAA	G	UGUGACAU	12502	AUGUCACA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	UUGCAUUU	34787
2000	9030	AUGCAAGU	G	UGACAUCU	12503	GAUUGUCA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	ACUUGCAU	34788
2014	9016	UUCUCCCG	G	CAGAUGUG	12504	CACAUCUG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	GGGGGGAA	34789
2020	9010	CCGAGAU	G	UGCCUCGC	12505	GCGAGGCA	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	AUCUGCGG	34790
2022	9008	CGAGAUGU	G	CCUCGCGC	12506	GCGGAGG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	ACAUCUGC	34791
2027	9003	UGUGCCUC	G	CGCUCCUC	12507	GAGGAGCG	GGAGGAAA	CUCCUUCA	AGGACA	UGCUCCGG	GAGGCACA	34792

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2029	9001	UGCCUGC G CUCCUCAU	12508	AUGAGGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	GCGAGGCA	34793
2070	8960	CUUCAACU G CUUCUCUG	12509	CAGAGAAAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	AGUUGAAG	34794
2079	8951	CUUCUCUG G CGCUCUCU	12510	GAGGAGCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAGAGAAG	34795
2081	8949	UCUCUGGC G CUCCUCA	12511	UGGAGGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	GCCAGAGA	34796
2098	8932	UUGAUUCU G CUCUCAA	12512	UUGAAGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	AGAAUCA	34797
2112	8918	CAACAUG G CACCCAAA	12513	UUUGGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAUGUUUG	34798
2121	8909	CACCCAAA G CUGCAUUG	12514	CAAUVCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UUUGGGUG	34799
2124	8906	CCAAAGCU G CAUUGCUG	12515	CAGCAAUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	AGCUUUUG	34800
2129	8901	GCUGCAU G CUGUUGAC	12516	GUCAACAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	AAUGCAGC	34801
2132	8898	GCAUUGCU G UUGACCUU	12517	AGGUCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	AGCAAUGC	34802
2162	8868	UCUCGAGA G CACAUCU	12518	AGAAUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UCUCGAGA	34803
2176	8854	UCUGGAC G UUUUUCU	12519	GAGAAAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	GUCCCAGA	34804
2187	8843	UUUCUCU G CCAAAAAC	12520	GUUUUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAGAGAAA	34805
2196	8834	CCAAAAC G CCCACAAC	12521	GUUGUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	GUUUUUUG	34806
2207	8823	CACAACCA G UUGUGUGU	12522	ACCACCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UGGUUUG	34807
2211	8819	ACCAGUUG G UGGUCUA	12523	UGAGACCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAACUGGU	34808
2214	8816	AGUUGUG G UCUCAUUG	12524	CAAUAGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CACCAACU	34809
2224	8806	CUCAUUGA G CACGUACU	12525	AGUACGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UCAAUGAG	34810
2228	8802	UUGAGCAC G UACUUCAC	12526	GUGAAUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	GUGCUCUA	34811
2245	8785	UCCUUCUG G CGGUUCAG	12527	CUGAACCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAGAAAGG	34812
2248	8782	UUCUGGCG G UUCAGGAG	12528	CUCCUGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CGCCAGAA	34813
2256	8774	GUUCAGGA G CUUUCUGU	12529	CAGAAAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UCCUGAAC	34814
2262	8768	GAGCUUUC G UGUCCACC	12530	GGUGGACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	GAAGAGCUC	34815
2264	8766	GCUUUCGU G UCCACCUU	12531	AAGGUGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	ACGAAAGC	34816
2287	8743	GAACACUC G CUGCUGCC	12532	GGCAGCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	GAGUGUUC	34817
2290	8740	CACUCGCU G CUGCCCGA	12533	UCGGGCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	AGCGAGUG	34818
2293	8737	UCGCUGCU G CCCGAAAG	12534	CCTUCCGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	AGCAGCGA	34819
2304	8726	CGAAGGGA G UAGUGUCA	12535	UGACACUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UCCCUUCG	34820
2307	8723	AGGAGUA G UGUCAGUC	12536	GACUGACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UACUCCCU	34821
2309	8721	GGAGUAGU G UCAGUCAU	12537	AUGACUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	ACUACUCC	34822
2313	8717	UAGUGUCA G UCAUGGCC	12538	GGCCAUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UGACACUA	34823
2319	8711	CAGUCAGU G CCAUGGUG	12539	CACCAUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAUGACUG	34824
2325	8705	UGGCAUG G UGUUAACA	12540	UGUUAACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAUGGCCA	34825
2328	8702	CCAUGGUG G UACAUUC	12541	GAUUGUUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CACCAUGG	34826
2337	8693	UAACAUC G UGAUGGUG	12542	CACCAUCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	GAUUGUUA	34827
2343	8687	UCUGAUG G UGUCCCAU	12543	AGGGGACA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAUCACGA	34828
2345	8685	GUGAUGGU G UCCCAUGG	12544	CCAUGGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	ACCAUCAC	34829
2353	8677	GUCCCAUG G UUUUGAGA	12545	UCUCAAAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	CAUGGGAC	34830
2365	8665	UGAGAGGA G CCUGACCA	12546	UGGUCAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UCCUCUCA	34831
2386	8644	AUUGACCA G CGAACUGG	12547	CCAGUUCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCCGG	UGGUCAAU	34832

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2394	8636	GCGAACUG G CGGAGCCU	12548	AGGCUCCG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CAGUUCGC	34833
2399	8631	CUGGCGGA G CCUGUGGG	12549	C'CCACAGG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG UCCGCCAG	34834
2403	8627	CGGAGCCU G UGGGUUC	12550	GAAGCCCA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG AGGCUCCG	34835
2407	8623	GCCUGUGG G UUCACAU	12551	AUGUAG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CCACAGGC	34836
2423	8607	UCAUAACU G CCUGUAU	12552	UAUACAGG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG AGUUAUGA	34837
2426	8604	UACUGCC G UGAUAGU	12553	AACUAUCA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GGCAGUUA	34838
2432	8598	CCUGUAU G UUCAGGU	12554	ACCUGGAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG UAUACGG	34839
2439	8591	AGUCCAG G UUCUAU	12555	AUAUAGAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CUGGAACU	34840
2450	8580	CUAUAUG G UGGUUCU	12556	GAGAACCA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CCAUAUAG	34841
2453	8577	UAUGGGU G UUCUAUC	12557	GAUGAGAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CACCCAU	34842
2462	8568	UUCUAUC G UGUUGCA	12558	UGGCACCA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GAUGAGAA	34843
2465	8565	UCAUGUG G UGCCACG	12559	ACGUGGCA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CACGAUGA	34844
2467	8563	AUCUGGU G CCAUGUC	12560	CGACGUGG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG ACCACGAU	34845
2472	8558	GGUGCCAC G UCGAACU	12561	CAGUUCGA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GUGGCACC	34846
2480	8550	GUGAACU G UACUACG	12562	CGUGACUA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG AGUUCGAC	34847
2488	8542	GUACUCAC G CCUGAGU	12563	GACUCAGG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GUGAGUAC	34848
2494	8536	ACGCUUGA G UCGUCAA	12564	UUGAACGA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG UCAGGCGU	34849
2497	8533	CCUGAGU G UUCAUCC	12565	GGAUUGAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GACUCAGG	34850
2507	8523	UCAUCCU G UUCUUAU	12566	AUCAAGAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG AGGAUUGA	34851
2523	8507	UUUUAUG G UGUUCGAG	12567	CUCAGACA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CAGUAAA	34852
2525	8505	UUACUGGU G UCUGAGU	12568	AACUCAGA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG ACCAGUAA	34853
2531	8499	GUGUCUGA G UUGAGCAG	12569	CUGUCUAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG UCAGACAC	34854
2536	8494	UGAUUGA G CAGGGGU	12570	AACCCUG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG UCAACUCA	34855
2542	8488	GAGCAGG G UUUUCCA	12571	UGGGAAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CCUGGUC	34856
2553	8477	UUCACAC G CCUGGUU	12572	AACCCAGG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GGUGGAA	34857
2559	8471	CCGCCUG G UUCACAU	12573	AAGUGGAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CAGGGCGG	34858
2573	8457	CUUCCCA G UUUAUAC	12574	GAUGUAAA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG UUGGGAAG	34859
2588	8442	UCUCCUC G UAUUGGG	12575	CCCCAUA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GAGGAAGA	34860
2596	8434	GUUUGGG G UCCUUCU	12576	GGAAGGGA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CCCAAUAC	34861
2607	8423	CCUCCAG G UCCUUUU	12577	AAAAAGGA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CUGGAAGG	34862
2632	8398	UCCUAGGA G CACUUGG	12578	GCCAGGUG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG UCCUAGGA	34863
2639	8391	AGCACCU G CUGGUCAU	12579	AUGACCAG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CAGGUGCU	34864
2643	8387	CCUGGUG G UCAUAUUC	12580	GAUAUGA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG CAGCCAGG	34865
2659	8371	CACUGAU G UACCAU	12581	AUGUGGUA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG AUUCAGUG	34866
2669	8361	ACCACAU G CCUGAAGC	12582	GUUCAGG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG AAUUGGU	34867
2676	8354	UGCUGAA G UCGACUC	12583	GAGUCGAG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG UUCAGGCA	34868
2699	8331	UAUAUCU G UGCUGGA	12584	UCCACGCA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GAGAUGUA	34869
2701	8329	CAUCUCU G CGUGGAU	12585	AUUCACG GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG ACGAGAU	34870
2703	8327	UCUGUGC G UGGAUUC	12586	GAUUCCA GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GCACGAGA	34871
2713	8317	GGAUUCU G UGAGAGU	12587	CACUUCU GGAGGAAAACUCCCUCAAGGACAUCGUCCGGG GGAUUCU	34872

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2719	8311	CCGUGAGA	G	UGGGUUC	12588	GAAACCCA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UCUCACGG	34873
2723	8307	GAGAGUGG	G	UUUCUGAC	12589	GUCAGAAA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CCACUCUC	34874
2734	8296	UCUGACCA	G	UCCCCCCC	12590	GGGGGGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGGUCAGA	34875
2750	8280	CCAACCG	G	CGUUGGAG	12591	CUCCAACG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CGGUUUGG	34876
2752	8278	AUACCGGC	G	UUGGAGCA	12592	UGCUCCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GCCGGUUA	34877
2758	8272	CGUUGGA	G	CAGCUCCA	12593	UGGAGCUG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UCCAACGC	34878
2761	8269	UUGGAGCA	G	CUCCAUCU	12594	AGAUGGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGCUCCAA	34879
2785	8245	GACUUUG	G	CAUGUAGG	12595	CCUACAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CGAAAGUC	34880
2789	8241	UUCGGCAU	G	UAGGGGCA	12596	UGCCCCUA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUGCCGAA	34881
2795	8235	AUGUAGG	G	CAGAGCAC	12597	GUGCUCUG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CCCUACAU	34882
2800	8230	GGGGCAGA	G	CACCUUCA	12598	UGAAGGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UCUGCCCC	34883
2810	8220	ACCUAC	G	CAAAUUC	12599	GAAUUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GUGAAGGU	34884
2824	8206	UUCCTUG	G	CCCUUGU	12600	ACCGAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CAAGGGAA	34885
2831	8199	GGCCUUG	G	UGCAGCCA	12601	UGGUCGCA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CGAGGGCC	34886
2833	8197	CCCUUGG	G	CAGCCAGU	12602	ACUGGCUG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACCGAGGG	34887
2836	8194	UCGGUGCA	G	CCAGUCCU	12603	AGGACUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGCACCGA	34888
2840	8190	UGGAGCA	G	UCCUCAAC	12604	GUUGAGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGGCUGCA	34889
2868	8162	CCCGAUC	G	UCCUAGC	12605	GCAUAGGA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GAUUCGGG	34890
2875	8155	CGUCUUA	G	CUUCUCAA	12606	UUGAAGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUAGGACG	34891
2889	8141	CAACUCA	G	CACUUGAC	12607	GUCAAGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGAGGUUG	34892
2912	8118	UCUCCGAU	G	UCACAAAG	12608	CUUUGUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUCGGAGA	34893
2925	8105	AAAGAGG	G	UGUCACAA	12609	UUGUGACA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CTUCCUUA	34894
2927	8103	AGGAGGU	G	UCACAACA	12610	UGUUGUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACCCUCCU	34895
2944	8086	CUCAGAAG	G	UCUGUAGA	12611	UCUACAGA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CUUCUGAG	34896
2948	8082	GAAGGUCU	G	UAGAACAC	12612	GUGUUCUA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGACCUUC	34897
2976	8054	UCUUCAU	G	UGACAAUG	12613	CAUUGUCA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CAUGAAGA	34898
2984	8046	GUGACAAU	G	UCCCAUCC	12614	GGAUGGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUUGUCAC	34899
3001	8029	AUACUUU	G	CACUAGUU	12615	AACUAGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAAGUUUA	34900
3007	8023	UUGCACUA	G	UUGGGGCU	12616	AGCCCCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UAGUGCAA	34901
3013	8017	UAGUUGG	G	CUCUUCAU	12617	AUGAAGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CCCAACUA	34902
3022	8008	CUCUUCAU	G	UCCGGGAC	12618	GUCCCCGA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUGAAGAG	34903
3032	7998	CCGGACC	G	CCCUUGU	12619	ACAAAGGG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGUCCCGG	34904
3039	7991	CGCCUUU	G	UGUACCCU	12620	AGGUUACA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAAGGGCG	34905
3041	7989	CCCUUGU	G	UACCCUCU	12621	AGAGGGUA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACAAAGGG	34906
3072	7958	UUUUUGG	G	UUGCCAUA	12622	UAUGGCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CCAAAAAA	34907
3075	7955	UUUGGUU	G	CCAUAUAG	12623	CUUAUUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AACCCAAA	34908
3083	7947	GCCAUAUA	G	UAACACCA	12624	UGGUGUUA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UAUAUGGC	34909
3095	7935	CACCAACC	G	CCUCUUC	12625	GGAAGAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGUUGGUG	34910
3113	7917	CAUCCAG	G	UCAUACAC	12626	GUGAUUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CUUGGAUG	34911
3133	7897	UCCGACCG	G	UUCGAGAA	12627	UUCUCGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CGGUCCGA	34912

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3148	7882	AAACUCC G	UUGGACCA	12628	UGGUCGAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	GGAGGUUU	34913
3157	7873	UUGGACCA G	CCAUCUCA	12629	UGAGAUUG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UGGUUGAA	34914
3166	7864	CCAUCUCA G	UUUUGCUG	12630	CAGCAAAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UGAGAUUG	34915
3171	7859	UCAUUUU G	UUUGGCC	12631	GGGCACAG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AAAAUCUGA	34916
3174	7856	GUUUGCU G	UGGCCCUA	12632	UAGGGGCA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AGCAAAAAC	34917
3176	7854	UUUGCUG G	CCCUUAGA	12633	UCUAGGGG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	ACAGCAAAA	34918
3193	7837	GAUCUGAU G	CCCUCCAG	12634	CUGGAGGG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AUCCAGUC	34919
3201	7829	GGCCUCCA G	UGACAUUG	12635	CAAUUGCA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UGGAGGGC	34920
3209	7821	GUACAUU G	CCUUCUUU	12636	AAAGAAGG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AAUUCAC	34921
3222	7808	CUUUCUG G	CGUGUUUU	12637	AAAACACG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	CAGGAAAG	34922
3224	7806	UCCUGGC G	UGUUUUGC	12638	GCAAAACA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	GCCAGGAA	34923
3226	7804	CCUGGCGU G	UUUUGCCG	12639	CGGCAAAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	ACGCCAGG	34924
3231	7799	CGUGUUUU G	CCGUCGAG	12640	CUCAGCGG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AAACACAG	34925
3234	7796	GUUUUGCC G	CUGAGCGA	12641	UCGCUACG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	GGCAAAAAC	34926
3239	7791	GCGGCUA G	CGAUCGAC	12642	GUCGAUG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UCAGCGGC	34927
3258	7772	CGAUGAG G	CCUCUUUG	12643	CAAAGAGG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	CAUCAUG	34928
3266	7764	GCCUCUU G	CGGUACCU	12644	AGGUACCG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AAAGAGGC	34929
3269	7761	UCUUUGCG G	UACCUAGU	12645	ACUAGGUA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	CGCAAAAGA	34930
3276	7754	GGUACCUA G	UGAACUCU	12646	AGAUUUA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UAGGUUACC	34931
3291	7739	CUUCUUUU G	UCAUCUGG	12647	CCAGAUGA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AAAGAAG	34932
3299	7731	GUCAUCUG G	UUGAGUCU	12648	AGACUCAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	CAGAUGAC	34933
3304	7726	CUGGUUGA G	UCUUUCUU	12649	AAGAAAGA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UCAACCCAG	34934
3330	7700	CUCCCAAG G	UGCGUCCU	12650	AGGACGCA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	CUUGGGAG	34935
3332	7698	CCAAGGU G	CGUCCUUU	12651	AAAGGACG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	ACCUUGGG	34936
3334	7696	CAAGGUCC G	UGCUUUUG	12652	CAAAAGGA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	GCACCUUG	34937
3342	7688	GUCCUUUU G	CCCCACCU	12653	AGGUGGGG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AAAAGGAC	34938
3358	7672	UCUUUUUA G	UCCUGGUU	12654	AACCCAGGA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UAAAAAGA	34939
3364	7666	UAGUCCUG G	UUUUUCCA	12655	UGGAAAAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	CAGGACUA	34940
3374	7656	UUUCCAU G	UUCUUUAU	12656	AUAAAGAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AUGGAAAA	34941
3385	7645	CUUUUGA G	UGUCCAUG	12657	CAUGGACA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UCAUAAAG	34942
3387	7643	UUUUGAGU G	UCCAUGUU	12658	AACAUGGA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	ACUCAUAA	34943
3393	7637	GUUCCAU G	UUUUGGAU	12659	AUCCAUAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AUGGACAC	34944
3424	7606	ACCCCCAC G	CAUGAUGU	12660	ACAUCAUG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	GUGGGGGU	34945
3431	7599	CGCAUGAU G	UGGCAGAG	12661	CUCUGCCA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AUCAUGCG	34946
3434	7596	AUGAUGUG G	CAGAGUCC	12662	GGACUUTG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	CACAUCAU	34947
3439	7591	GUGGCAGA G	UGCGAUGG	12663	CCAUCGGA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UCUGCCAC	34948
3447	7583	GUCCGAGU G	CAGUUGUU	12664	AACAACUG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	CAUCGGAC	34949
3450	7580	CGAUGGCA G	UUUUGCGG	12665	CGCAACAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	UGCCAUUG	34950
3453	7577	UGGCAGUU G	UUGCGUUC	12666	GAACGCAA	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AACUGCCA	34951
3456	7574	CAGUUGUU G	CGUUCCAA	12667	UUGGAACG	GGAGGAAA	UCCCUU	CAAGGACA	UCGUCCGG	AAACACUG	34952

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3458	7572	GUUUGUC G UUCCAAAC	12668	GUUUGGAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GCAACAAC	34953
3470	7560	CAACAGA G CUUGUCC	12669	GGAGCAAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UCUGUUUG	34954
3474	7556	CAGAGUU G CUCCAUC	12670	GAAUGGAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAGCUCUG	34955
3490	7540	CUCCAAA G CGUACCG	12671	CGGUGACG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UUUUGGAG	34956
3492	7538	CCCAAAGC G UCACCGU	12672	AGCGGUGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GCUUUGGG	34957
3498	7532	GGGUCACC G CUGCGGCC	12673	GGCGGCGAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGUGACGC	34958
3501	7529	UCACCGU G CGGCGGUG	12674	CACGGCCG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGCGGUGA	34959
3504	7526	CGGUGCG G CCGUGAUC	12675	GAUCACGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CGCAGCGG	34960
3507	7523	CUGCGGC G UGAUCHAA	12676	UUUGAUCG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGCCGCGAG	34961
3522	7508	AAAUCCG G CUUCUGU	12677	ACGAGAAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CGGAUUUU	34962
3529	7501	GGCUUCU G UACUGUCU	12678	AGACAGUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GAGAAGCC	34963
3534	7496	CUCGUACU G UCUCACA	12679	UGUGAAGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGUACGAG	34964
3548	7482	ACAGAGG G UUCACUAC	12680	GUAGUGAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CCGUCUGU	34965
3561	7469	CUACUACU G CAGCUAGA	12681	UCUAGCUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGUAGUAG	34966
3564	7466	CUACUGCA G CUAGAGAC	12682	GUUCUAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGCAGUAG	34967
3583	7447	CAAGAUC G CAUGAUCU	12683	AGAUCUAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGAUCUUG	34968
3592	7438	CAUGAUCU G UCCAACUU	12684	AAUUGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGAUCUAG	34969
3607	7423	UUUCUUCU G CAUGAUGG	12685	CCAUCUAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGAAGAAA	34970
3616	7414	CAUGAUGG G UGUGGUGC	12686	GCACCACA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CCAUCUAG	34971
3618	7412	UGAUGGU G UGGUGGCG	12687	GGCACACA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG ACCCAUCA	34972
3621	7409	UGGUGUG G UGCGUCUC	12688	AGAGCGCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CACACCCA	34973
3623	7407	GGUGGUGU G CGCUCUAA	12689	UUAGAGCG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG ACCACACC	34974
3625	7405	UGUGGUGC G CUCUAAUU	12690	AAUAGAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GCACCACA	34975
3641	7389	UCUGGAG G UCGUGGCG	12691	GCCACGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GUCCCCAG	34976
3645	7385	GGACGUCC G UGGCCACG	12692	CGUGGCCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGACGUCC	34977
3648	7382	CGUCGUG G CCACGAUG	12693	CAUCGUGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CACGGACG	34978
3656	7374	GCCACGAU G CCAUCCAC	12694	GUUGAUGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AUCGUGGC	34979
3669	7361	CCACUACA G CGUUCUUC	12695	GAAGAACG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGUAGUGG	34980
3671	7359	ACUACAGC G UUCUUCAU	12696	AUGAAGAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GCUGUAGU	34981
3687	7343	UGAUCCG G CCGUGUC	12697	GACAGCGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CGGAUACA	34982
3690	7340	UUCGGCC G CUGUCCGC	12698	GCGGACAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGCCGGAA	34983
3693	7337	CGGCGCU G UCCGCGCG	12699	GCGCGGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGCGGCCG	34984
3697	7333	CGCUGUCC G CCGCUGGG	12700	CCCAGCGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGACAGCG	34985
3700	7330	UGUCGCC G CUGGGCUG	12701	CAGCCCGAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGCAGACA	34986
3705	7325	GCCGUGG G CUGAGCGC	12702	GCGCUCAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CCAGCGGC	34987
3710	7320	UGGGUGA G CGCAUUGC	12703	GCAAUCCG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UCAGCCCCA	34988
3712	7318	GGCUGAGC G CAUUGCCU	12704	AGGCAUUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GCUCAGCC	34989
3717	7313	AGCGAUU G CCUCAGCU	12705	AGCUGAGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAUUGCGU	34990
3723	7307	UUGCCUCA G CUUGCCAA	12706	UUGGCAAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGAGGCCAA	34991
3727	7303	CUCAGCUU G CCAACGGG	12707	CCGGUUGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAGCUGAG	34992

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3743	7287	GGAAACCAU G UAGGCAUA	12708	UAUGCCUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUGGUUCC	34993
3747	7283	CCAUGUAG G CAUAGUGG	12709	CCACUAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUACAUGG	34994
3752	7278	UAGGCAUA G UGGCAAAA	12710	UUUUGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAUGCCUA	34995
3755	7275	GCAUAGU G CAAAAAG	12711	CUUUUUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CACUAUGC	34996
3766	7264	AAAAGGA G UGUUGCG	12712	CGGCAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCCUUUUU	34997
3768	7262	AAAGGAGU G UUGCCGCU	12713	AGCGGCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUCCUUU	34998
3771	7259	GGAGUGUU G CCGCUGUU	12714	AACAGCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AACACUCC	34999
3774	7256	GUGUUGCC G CUGUUACC	12715	GGUAACAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGCAACAC	35000
3777	7253	UUGCCGCU G UUACCGUA	12716	UACGGUAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCGGCAA	35001
3783	7247	CUGUUACC G UAACGGUG	12717	CACCGUUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGUAAACAG	35002
3789	7241	CCGUAAAC G UGAGGGUG	12718	CACCCUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGUUAACGG	35003
3795	7235	CGUGAGG G UGACUUGU	12719	ACAAGUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CCUCACCG	35004
3802	7228	GGUGACUU G UCCCCAGC	12720	GCUGGGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAGUCACC	35005
3809	7221	UGUCCCCA G CAUCCGGC	12721	GCCGGAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGGGAGACA	35006
3816	7214	AGCAUCCG G CUGCUAGC	12722	GCUAAGAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CGGAUGCU	35007
3819	7211	AUCCGGCU G CUAGCAGG	12723	CTUGCUAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCCGGAU	35008
3823	7207	GGCUGCUA G CAGGAGAG	12724	CUCUCCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAGCAGCC	35009
3831	7199	GCAGGAGA G CCACACAU	12725	AGUGUCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCUCUCGC	35010
3860	7170	AAAGGGAA G CUCGCGCG	12726	GCGCGAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UUCGCCUU	35011
3865	7165	GAGCCUUC G CGCGAGUG	12727	CACUCGGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GAGGCUUC	35012
3867	7163	AGCCUCGC G CGAGUGUG	12728	CACACUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GCGAGGCU	35013
3871	7159	UCGCGCGA G UGUGAAUA	12729	UAUUCACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCGGCGGA	35014
3873	7157	GCGCGAGU G UGAUUAGU	12730	ACUAUUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUCGCGC	35015
3880	7150	UGUGAAUA G UGCACUUG	12731	CAAGUGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAUUCACA	35016
3882	7148	UGAAUAGU G CACUUGCC	12732	GGCAAGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACUAUUCA	35017
3888	7142	GUGACAUU G CCUGAACG	12733	CGUUCAGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AAGUACAC	35018
3896	7134	GCTUGAAC G UUUUAUGA	12734	UCAAUAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GUUCAGGC	35019
3906	7124	UUUAUGAG G UCAAUGAG	12735	CUCAUUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUCAAUAA	35020
3915	7115	UCAAUGAG G UGUUGAUG	12736	CAUCAACA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG CUCAUUGA	35021
3917	7113	AAUGAGGU G UUGAUGUA	12737	UACAUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG ACCUCAU	35022
3923	7107	GUGUUGAU G UAAUCUGA	12738	UCAGAUUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUCAACAC	35023
3933	7097	AAUCUGAC G UGAUCAAA	12739	UUUGAUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GUACAGAU	35024
3943	7087	GAUCAAAU G CUUUAAGCA	12740	UGCUAAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AUUUGAUC	35025
3949	7081	AUGCUUUA G CAGUGGAG	12741	CUCCACUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UAAAGCAU	35026
3952	7078	CUUUAAGA G UGGAGUGA	12742	UCACUCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGCUAAAG	35027
3957	7073	GUGAGGA G UGAGGACC	12743	GGUCCUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UCCACUGC	35028
3966	7064	UGAGGACC G CUGUUGUC	12744	GACAACAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG GGUCCUCA	35029
3969	7061	GGACCGCU G UUGUCACA	12745	UGUGACAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AGCGGUCC	35030
3972	7058	CCGUGUU G UCACAGCG	12746	CGCUGUGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG AACAGCGG	35031
3978	7052	UUGUCACA G CGUACAGU	12747	ACUGUACG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG UGUGACAA	35032

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3980	7050	GUCACAGC G UACAGUGA	12748	UCACUGUA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCUGUGAC	35033
3985	7045	AGCGUACA G UGACCAGG	12749	CCUGGUCA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUACGCU	35034
3993	7037	GUGACCAG G CUGUGCC	12750	GGCAACAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUGGUCAC	35035
3996	7034	ACCAGGCU G UUGCCGGC	12751	GCCGGCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCCUGGU	35036
3999	7031	AGGUGUU G CCGGCCUC	12752	GAGGCGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCAAGCU	35037
4003	7027	UGUUGCG G CUCAGAU	12753	ACUUGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGGCAACA	35038
4010	7020	GGCUCAA G UCCAAAG	12754	CUUUUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUGAGGCC	35039
4031	6999	UCUCCAU G CUGAAAU	12755	AAUUCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGGGAGA	35040
4060	6970	AAUUCUU G CCAACA	12756	UGUUUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAAGAAU	35041
4073	6957	AACAAAU G CUUAGUC	12757	GACAUAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUUUGUU	35042
4079	6951	CUGCUAU G UCACUCU	12758	AAGAGUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUAAGCAG	35043
4089	6941	CACUCUG G UCUUAUCU	12759	AGAUAGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAAGAGUG	35044
4099	6931	CUUAUCU G CCAACCA	12760	UGGUUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UAGAUAG	35045
4112	6918	CCCAUCU G UUGGUGC	12761	GCAGCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAGAUUGG	35046
4116	6914	UCUGGUG G CUGCCACU	12762	AGUGGCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAACGAGA	35047
4119	6911	CGUUGGU G CCACUGCG	12763	CGCAGUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGCCAACG	35048
4125	6905	CUGCCACU G CGUCACA	12764	UGUGAGCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUGGCGG	35049
4127	6903	GCCACUG G CUCACAAG	12765	CUUGUGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCAGUGGC	35050
4137	6893	UCACAAG G UCAUGACA	12766	UGUCAUGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCUUGUGA	35051
4161	6869	GGAACAG G CUAGCUGG	12767	CCAGCUAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGUGUUC	35052
4165	6865	CACGCUA G CUGGUUGU	12768	ACAAACCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UAGCCGUG	35053
4169	6861	GUAGCUG G UUGUCUGU	12769	ACAGACAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGCUAGC	35054
4172	6858	AGCUGGU G UCUGUCUG	12770	CAGACAGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACCAGCU	35055
4176	6854	GGUUGUCU G UCUGCGAA	12771	UUCGCAGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGACAACC	35056
4180	6850	GUCUGUCU G CGAACGUU	12772	AACGUUCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGACAGAC	35057
4186	6844	CUGCGAAC G UUGCUUCU	12773	AGAAGCAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUUCGCAG	35058
4189	6841	CGAAGGU G CUUCUCUG	12774	CAGAGAAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AACGUUCG	35059
4198	6832	CUUCUCUG G CUCAGGAA	12775	UUCCTUGAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAGAGAAG	35060
4210	6820	AGGAUUA G CACAAUCA	12776	UGAUTUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UAAUUCU	35061
4234	6796	AAGGAGA G CAGCAACA	12777	UGUUGCUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCUCCCU	35062
4237	6793	GGAGAGCA G CAACAUC	12778	GAAUGUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGCUCUCC	35063
4248	6782	ACAUCCG G CGAUUCU	12779	GAAGUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CGGAUUG	35064
4257	6773	CGAUUCU G UUCUUGGA	12780	UCCAGGAA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GAAGAUCC	35065
4272	6758	GAACUUA G CCAUCCAA	12781	UUGGAUUG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGAAGUUC	35066
4290	6740	AGAAAAG G UCGGACU	12782	AGUCGCGA	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUUUUUCU	35067
4293	6737	AAAAGGUC G GCACUCCC	12783	GGGAGUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GACCUUUU	35068
4308	6722	CCAAGACA G CGCUCCC	12784	GGGAGGCG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUCUUGG	35069
4310	6720	AGACAGC G CCUCCCAA	12785	UUGGGAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCUGUCUU	35070
4334	6696	UUUCCAU G CCUUCUG	12786	CGGAAGGG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUUGGAAA	35071
4342	6688	GCCCUCC G CUGCAUGA	12787	UCAUGCAG	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGAAGGGC	35072

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4345	6685	CUUCCGCU G CAUGAGGA	12788	UCCUCAUG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	AGCGGAAG	35073
4371	6659	CUCCCAUG G UCAUCACA	12789	UGUGAUGA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CAUGGGAG	35074
4389	6641	UCAUAAG G CAAUCAAG	12790	CUUGAUGG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CUUAUUGA	35075
4398	6632	CAAUAAG G CAAUUGUC	12791	GACAAUUG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CUUGAUUG	35076
4404	6626	AGGCAUU G UCUGAAGA	12792	UCUUAUG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	AAUUGCCU	35077
4413	6617	UCUGAAG G CAUCUGGC	12793	GCCAGAUG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UCUUCAGA	35078
4420	6610	AGCAUCUG G CAGUUCU	12794	AGGAACUG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CAGAUGCU	35079
4423	6607	AUCUGGCA G UUCUCCA	12795	UGGAGGAA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UGCAGAU	35080
4434	6596	CUCCAGG G CCAUUCUG	12796	CAGAAUGG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CUUGGAGG	35081
4442	6588	GCAUUCU G UGAGCUCU	12797	AGAGCUCA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	AGAAUGGC	35082
4446	6584	UUCUGUGA G CUCUUCU	12798	AGGAAGAG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UCACAGAA	35083
4464	6566	CUUUCUCU G CAGUGGCC	12799	GGCCACUG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	AGAGAAAG	35084
4467	6563	UCUCUGCA G UGCGCACA	12800	UGUGGCCA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UGCAGAGA	35085
4470	6560	CUGCAGUG G CCACAACG	12801	CGUUGUGG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CACUGCAG	35086
4478	6552	GCCACAAC G UACAUGGU	12802	ACCAUGUA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	GUUGUGGC	35087
4485	6545	CGUACAUG G UGUCAAGU	12803	ACUUGACA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CAUGUACG	35088
4487	6543	UACAUGUG G UCAAGUGC	12804	GCACUUGA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	ACCAUGUA	35089
4492	6538	GGUGUCAA G UGCUUCC	12805	GGGAAGCA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UUGACACC	35090
4494	6536	UGUCAAGU G CUUCCCAU	12806	AUGGGAAG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	ACUUGACA	35091
4503	6527	CUUCCCAU G UCUUCCCC	12807	GGGGAAGA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	AUGGGAAG	35092
4517	6513	CCCAUGAA G UGCUCAGG	12808	CCUGAGCA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UUCAUUGG	35093
4519	6511	CAUGAAGU G CUCAGGCA	12809	UGCCUGAG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	ACUUCUUG	35094
4525	6505	GUUCUCAG G CAUCUUC	12810	GAAAGAUG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CUGAGCAC	35095
4549	6481	CUCAUUGA G CCUAUUCU	12811	AGAUAGGG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UCAUUGAG	35096
4564	6466	CUGAGAAC G UUUUCCCG	12812	CGGGAAGA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	GUUCUCAG	35097
4575	6455	UUCCCAG G CGAAGUCC	12813	GGACUUCG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CUCGGGAA	35098
4580	6450	GAGCGGA G UCCUUGAA	12814	UUCAAGGA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UUCGCCUC	35099
4590	6440	CCUUGAAC G CCUUUAGU	12815	ACUAAAGG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	GUUCAAGG	35100
4597	6433	CGCCUUA G UGCCUGGU	12816	ACCAGGCA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UAAAGGCG	35101
4599	6431	CCUUUAGU G CCUGGUGA	12817	UCACCAGG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	ACUAAAAG	35102
4604	6426	AGUGCCUG G UGAUCCGA	12818	UCGGAUCA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CAGGCACU	35103
4613	6417	UGAUCCGA G UACACCCU	12819	AGGGUGUA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UCGGAUCA	35104
4623	6407	ACACCCUG G CGUCAUUC	12820	GAUUGACG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CAGGGUGU	35105
4625	6405	ACCCUGGC G UCAAUCCA	12821	UGGAUUGA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	GCCAGGGU	35106
4634	6396	UCAAUCCA G CGCGGCCU	12822	AGGCCGGG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UGGAUUGA	35107
4636	6394	AAUCCAGC G CGGCCUCA	12823	UGAGGCCG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	GCUGGAUU	35108
4639	6391	CCAGCCGG G CCUCAGAA	12824	UUCUGAGG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	CGCGCUGG	35109
4663	6367	UUCACCAA G CUUCUGA	12825	UCACGAAG	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	UUGGUGAA	35110
4668	6362	CAAGCUUC G UGAUGACU	12826	AGUCAUCA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	GAAGCUUG	35111
4685	6345	UCCACUUC G UUGUUGUC	12827	GACAACAA	GGAGGAAACUCCCUUCAAGGACAUCGUCCGGG	GAAGUGGA	35112

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4688	6342	ACUUCGUU G UUGUCUUC	12828	GAAGACAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AACGAAGU	35113
4691	6339	UCGUUGU G UCUCUAA	12829	UUAGAAGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AACAAAGA	35114
4704	6326	CUAAAAU G UGUUGUC	12830	GACAAACA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAUUUUG	35115
4706	6324	AAAAUUGU G UUUGUCU	12831	AGGACAAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG ACAUUUU	35116
4710	6320	UUUGUUU G UCCUAGGA	12832	UCCUAGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AACACAA	35117
4727	6303	CCAUCAAA G CACCACU	12833	AGUGUGU GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UUUGAUGG	35118
4739	6291	CACUCCG G UCGUGUA	12834	UACCACGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CGGAGGUG	35119
4742	6288	CUCCGGUC G UGUUAUGA	12835	UCAUACCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GACCCGAG	35120
4745	6285	CGGUCGUG G UAUGACAC	12836	GUGUCAUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CACGACCG	35121
4758	6272	ACACUCCA G CCGCUGCA	12837	UGCAGCGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGGAGUGU	35122
4761	6269	CUCCAGCC G CUGCAACC	12838	GGUUGCAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGCUGGAG	35123
4764	6266	CAGCGGU G CAACCUUG	12839	CAAGGUUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGCGGCUG	35124
4772	6258	GCAACCU G UAAGCCAG	12840	CUGGCUUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AAGGUJGC	35125
4776	6254	CCUUGUA G CCAGCCAA	12841	UUGGCUUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UUAACAAGG	35126
4780	6250	GUAGCCA G CCAACUG	12842	CAGUUUGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGGCUUAC	35127
4789	6241	CCAAACUG G CAGAUUCG	12843	CAGAUCUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CAGUUUGG	35128
4797	6233	GCAGAUU G CAGUCCUC	12844	GAGGACUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AGAUCUGC	35129
4800	6230	GAUCUGA G UCCUCAAC	12845	GUUGAGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGCAGAU	35130
4810	6220	CCUCAACA G UUCCAGAA	12846	UUCUGGAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGUUGAGG	35131
4820	6210	UCCAGAAA G UUUUUUCU	12847	AGAAAAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UUCUCUGGA	35132
4843	6187	UCCUCUGA G CCGGUUUU	12848	AAUACCGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UCAGAGGA	35133
4847	6183	CUAGCCG G UAUUCCCC	12849	GGGGAUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CGGCUACG	35134
4863	6167	CAUCAUG G UAUUAUCC	12850	GUUAUAUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CAUGGAUG	35135
4879	6151	CUUCUCAC G CUCUGGUU	12851	AACCAAG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GUGAGAG	35136
4885	6145	ACGCUCUG G UUGGUAGA	12852	UCUACCAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CAGAGCGU	35137
4889	6141	UCUGGUUG G UAGAAUUG	12853	CAAUUCUA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CAACCAGA	35138
4899	6131	AGAAUUGA G CGAUACAU	12854	ACUGAUCG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UCAAUUCU	35139
4906	6124	AGCGAUCA G UCCGUUUG	12855	CAAAACGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGAUCGCU	35140
4910	6120	AUCAGUCC G UUUGCAU	12856	AUGCCAAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GGACUGAU	35141
4915	6115	UCCGUUUG G CAUGUAGA	12857	UCAACAUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CAAACCGA	35142
4919	6111	UUUGGCAU G UUGAUUUU	12858	AACAUCAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AUGCCAAA	35143
4925	6105	AUGUUGAU G UUUGCCAG	12859	CUGGACAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AUCAACAU	35144
4928	6102	UUUGAUUU G UCCAGCAU	12860	AUGCUGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG AACAUCAA	35145
4933	6097	GUUGUCCA G CAUGAUUC	12861	GAUUAUG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGGACAC	35146
4942	6088	CAUGAUUC G UGCCUCAG	12862	CUGAGGCA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG GAAUCAUG	35147
4944	6086	UGAUUCGU G CCUCAGUC	12863	GACUGAGG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG ACGAAUCA	35148
4950	6080	GUGCCUCA G UCCAAUGG	12864	CCAUUGGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UGAGGCAC	35149
4959	6071	UCCAAUGG G CGAAGUUC	12865	GAACUUCG GGAGGAAACUCCUUCAAGGACAUCGUCGCGG CCAUUGGA	35150
4964	6066	UGGGCGAA G UUCGAGUC	12866	GACUCGAA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UUCGCCCA	35151
4970	6060	AAGUUGA G UCUCUUC	12867	GAAGACGA GGAGGAAACUCCUUCAAGGACAUCGUCGCGG UCGAACUU	35152

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4973	6057	UUGAGUC G UCUCUAU	12868	AAUGAAGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GACUCGAA	35153
4983	6047	CUUCAUUC G UGUGCCCC	12869	GGGGCACA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GAAUGAAG	35154
4985	6045	UCAUCGU G UGCCCCC	12870	GGGGGCA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	ACGAAUGA	35155
4987	6043	AUUCUGU G CCCCCAU	12871	AUGGGGG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	ACAGAAU	35156
5000	6030	CAUAACA G UACUCAU	12872	GAUGGUA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	UGUUAUGG	35157
5017	6033	ACCAACU G CGACGGAU	12873	AUCCGUCG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AAUUAUGU	35158
5038	5992	ACGGAUAC G UCCACGUC	12874	GACGUGGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GUUAUCGU	35159
5044	5986	AGGUCCAC G UCUCUGG	12875	CCCAGAGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GUGGACGU	35160
5052	5978	GUUCUGG G CGGCACUA	12876	UAGUGCCG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CCAGAGAC	35161
5055	5975	UCUGGGG G CACUAGCU	12877	AGCUAGUG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CGCCCAGA	35162
5061	5969	CGGCACUA G CUGCUGUC	12878	GACAGCAG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	UAGUGCCG	35163
5064	5966	CACUAGCU G CUGUCACU	12879	AGUGACAG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AGCUAGUG	35164
5067	5963	UAGCUGCU G UCACUGCA	12880	UGCAGUGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AGCAGCUA	35165
5073	5957	CUGUCACU G CAGAUGGU	12881	ACCAUCUG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AGUGACAG	35166
5080	5950	UGCAGUAG G UUCUCCCA	12882	UGGAGAA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CAUCUGCA	35167
5112	5918	CUCCUUCU G UUAUGAUG	12883	CAUCAUA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AGAAAGGAG	35168
5121	5909	UUAUGAUG G UUGGUUUC	12884	GAACCAA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CAUCAUA	35169
5125	5905	GAUGGUUG G UUCACAC	12885	GUGUGAA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CAACCAUC	35170
5141	5889	CUCUUCG G CUGUCAU	12886	AUUGACAG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CGGAAGAG	35171
5144	5886	UUCCGGU G UCAAUAC	12887	GUGAUGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AGCCGGAA	35172
5156	5874	AUCACCU G CUGGCUU	12888	AAGGCGAG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AGGGUGAU	35173
5160	5870	CCUGCUC G CCUUGAAG	12889	CUUCAAGG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GAGCAGGG	35174
5168	5862	GCCUUGAA G UUAGCCCC	12890	GGGCUUA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	UUCAAGGC	35175
5172	5858	UGAAGUUA G CCCCCAU	12891	AAUGGGG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	UAAUCUUA	35176
5189	5841	UCAGAUU G UCUGUUGU	12892	ACAACAGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AUAUCUGA	35177
5193	5837	AUAUGUCU G UUGUGAUA	12893	UAUCAAA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AGACAUU	35178
5196	5834	UGUCUGUU G UGAUAACA	12894	UGUUAUA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AACAGACA	35179
5207	5823	AUAACAA G UCCCAUUC	12895	GAUUGGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	UUUGUUAU	35180
5219	5811	CAAUCAUC G UUCUUAUA	12896	UGUAAGAA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GAUGAUUG	35181
5234	5796	CAUUUGG G UACUCCGU	12897	ACGGAGUA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CCAAAAUG	35182
5241	5789	GGUACUCC G UCUCGUAC	12898	GUACGAGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GGAGUACC	35183
5246	5784	UCCGUCUC G UACGACUU	12899	AAGUCGUA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GAGACGGA	35184
5258	5772	GACUUCU G UUCAUUG	12900	CAUUGAA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AGAAAGUC	35185
5283	5747	UCUUUCCA G CACGUUGU	12901	ACAACGUG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	UGGAAAGA	35186
5287	5743	UCCAGCAC G UUGUAGGC	12902	GCCUACAA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GUGCUGGA	35187
5290	5740	AGCACGUU G UAGGCAAA	12903	UUUGCCUA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	AACGUGCU	35188
5294	5736	CGUUGUAG G CAAAGGGC	12904	GCCCUUUG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CUACAACG	35189
5301	5729	GGCAAGAG G CAUAUCA	12905	UGAUUUG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CCUUUGCC	35190
5329	5701	GACAUUAG G CACAAACC	12906	GGUUGUG	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	CUAGUGUC	35191
5343	5687	ACCAAACC G UCUCUCCG	12907	CGGGAAGA	GGAGGAAACUCCCUCAAGGACAUCGUCCGGG	GGUUUGGU	35192

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5352	5678	UCUUCGG G UGUUUUCU	12908	AGAAUACA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CGGGAAGA	35193
5354	5676	UUCGCGG G UAUUCUGU	12909	ACAGAAUA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	ACCGGGAA	35194
5361	5669	UGUAUUCU G UGAUCCAU	12910	AUGGAUCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AGAAUACA	35195
5372	5658	AUCCAUC G UAUCCAGA	12911	UCUGGAUA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	GAUUGGAU	35196
5381	5649	UAUCAGA G UUCAAGC	12912	GCUUGGAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UCUGGAUA	35197
5388	5642	AGUCCAA G CUCGAUCC	12913	GGAUGAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UUGGAACU	35198
5406	5624	GGAUCAA G UCUGUAG	12914	CUUACAGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UGAGAUCU	35199
5410	5620	CUCAGUCU G UAAGUCGG	12915	CCGACUUA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AGACUGAG	35200
5414	5616	GUCUGUAA G UCGGAUUA	12916	AUUUCCGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UUACAGAC	35201
5425	5605	GGAAUUG G UGAUUGG	12917	CCAAUUA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CAAUUUCC	35202
5454	5576	GAUCUGAA G UGCCUGGU	12918	ACCAGGCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UUCAGAUC	35203
5456	5574	UCUGAAGU G CUGGUGG	12919	CCACCAGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	ACUUCAGA	35204
5461	5569	AGUGCCUG G UGGGGUGG	12920	CCACCCCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CAGGCACU	35205
5466	5564	CUGGUGG G UGGCUGUC	12921	GACAGCCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CCCACCAG	35206
5469	5561	GUGGGUG G CUGUCAUG	12922	CAUGACAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CACCCAC	35207
5472	5558	GGGUGGCU G UCAUGAAU	12923	AUUAUGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AGCCACCC	35208
5484	5546	UGAAUUAU G CCGCGCC	12924	GGCGCGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AAUAUUAU	35209
5487	5543	AUAUUGC G CCGCUCC	12925	GGAGCGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	GGCAAUAU	35210
5490	5540	UUGCGCC G CCUCGCC	12926	AGGGAGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	GGCGGCAA	35211
5500	5530	CUCGCCUA G CUCGACCU	12927	AGGUCGAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UAGGGGAG	35212
5511	5519	CGACCUU G UGGAUUG	12928	CAUUUCCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AAAGGUUC	35213
5519	5511	GUGAAAU G UAACCUU	12929	AGAGGUUA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AUUUCCAC	35214
5529	5501	AACUCUUC G CUGCHAUG	12930	CAUUGCAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AAGAGGUU	35215
5532	5498	CUCUUGCU G CAUUGCUA	12931	UAGCAUUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AGCAAGAG	35216
5537	5493	GCUGCAU G CUAGCUGG	12932	CCAGCUAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AUUGCAGC	35217
5541	5489	CAUUGCUA G CUGGGUCG	12933	CGACCCAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UAGCAUUG	35218
5546	5484	CUAGCUGG G UCGGUGAA	12934	UUCACCGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CCAGCUAG	35219
5550	5480	CUGGGUCG G UGAUAUGA	12935	UCAUUAUA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CGACCCAG	35220
5559	5471	UGAAUUGA G CCUCAUCC	12936	GGAUGAGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UCAUUUCA	35221
5579	5451	ACGAACAG G UUGUAGUU	12937	AACUACAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CUGUUCGU	35222
5582	5448	AACAGGUU G UAGUUCGG	12938	CCGAACUA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AACCUGUU	35223
5585	5445	AGGUUGUA G UUCGGCAC	12939	GUGCCGAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UACAACCU	35224
5590	5440	GUAGUUCG G CACCCUGU	12940	ACAGGGUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CGAACUAC	35225
5597	5433	GGCACCCU G UGAGGAGA	12941	UCUCCUCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AGGUGGCC	35226
5611	5419	AGACAUCU G CCUGUGGG	12942	CCACACAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UGAUGUCU	35227
5615	5415	AUCAGCCU G UGGUGAG	12943	CUCACCCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AGGCUGAU	35228
5619	5411	GCCUGUGG G UGAGGUA	12944	UACCCUCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CCACAGGC	35229
5625	5405	GGGUGAGG G UAGCAUGA	12945	UCAUGCUA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	CCUCACCC	35230
5628	5402	UGAGGGUA G CAUGACAC	12946	GUGUCAUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	UACCCUCA	35231
5665	5365	UCCAUUAU G UUCUCUGG	12947	CCAGAGAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGGG	AUAAUGGA	35232

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5674	5356	UUCUCUGG G CACUGCGG	12948	CGCAGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35233
5679	5351	UGGCGACU G CGAUGUC	12949	GACAUCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35234
5685	5345	CUGCGAU G UCUGGUAC	12950	GUACGAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35235
5690	5340	GAUGUCU G UACCGAU	12951	AUCCGGUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35236
5701	5329	CCGGAUG G CAGUCCU	12952	GAGGACUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35237
5704	5326	GAUGGCA G UCCUCUA	12953	UGAGAGGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35238
5713	5317	UCCUCUA G UGCUACG	12954	CUGAAGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35239
5715	5315	CUCUCAG G CUUCAGC	12955	GGCUGAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35240
5721	5309	GUGCUUA G CCAUCUA	12956	UGAGAUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35241
5730	5300	CCAUCUA G CAGCACA	12957	UGUGGCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35242
5733	5297	UCUCAGCA G CCACACC	12958	GGUUGUGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35243
5745	5285	CAACCCUG G UUGGUGU	12959	AGCACCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35244
5749	5281	CCUGGUG G UGCUAGCA	12960	UGCUGCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35245
5751	5279	UGGUGGU G CUAGCACG	12961	CGUGCUAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35246
5755	5275	UGGUGCUA G CACGGCUG	12962	CAGCCGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35247
5760	5270	CUAGCACG G CUGUUCU	12963	GAGAACAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35248
5763	5267	GCACGGCU G UUCUCAGU	12964	ACUGAGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35249
5770	5260	UGUUCUA G UCUUCUGU	12965	ACAGAAGA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35250
5777	5253	AGUCUUCU G UUUADGGC	12966	GCCAUAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35251
5784	5246	UGUUUUG G CCUCUUUG	12967	CAAGAGGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35252
5800	5230	GAUGAUCU G UGGCAGAA	12968	UUUCGCCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35253
5803	5227	GAUCUGU G CAGAUCC	12969	GGAUUCUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35254
5817	5213	UCCUCCU G UUUUACCG	12970	CGGUAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35255
5826	5204	UUUACCG G CGCGGGA	12971	UCCCGCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35256
5828	5202	UUACCGGC G CCGGAUG	12972	CAUCCCGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35257
5845	5185	GAGAUCCA G UACAGUGA	12973	UCACUGUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35258
5850	5180	CCAGUACA G UGAUCUGU	12974	ACAGAUCA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35259
5857	5173	AGUGAUCU G UUUUUCC	12975	GGAAAAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35260
5869	5161	UUUCUUA G CAUCUCAG	12976	CUGAGAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35261
5878	5152	CAUCUCAG G UUCGAAUC	12977	GAUUCGAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35262
5889	5141	CGAAUCCG G CUGGGAU	12978	AAUCCAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35263
5899	5131	UGGGAUUG G CUCAUCCA	12979	UGGAUGAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35264
5920	5110	UUCACCCU G CACUAUCG	12980	CGAUAGUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35265
5928	5102	GCUAUUC G CGCUUUG	12981	CAUAAGCG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35266
5930	5100	ACUAUCG G CUUAUGUA	12982	UACAUAAG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35267
5936	5094	GGCUUAU G UADAGCC	12983	GGCUCUA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35268
5942	5088	AUGAUGA G CCGUUGG	12984	CCCAACGG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35269
5945	5085	UAUGAGC G UUGGGCAU	12985	AGCCCCAA GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35270
5950	5080	GCGUUGG G CAUUAUGA	12986	UCAUAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35271
5966	5064	ACUCCAU G CCAUAAAG	12987	CUUUAUG GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	35272

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5974	5056	GCCAAUAA	G	CCCAAUCA	12988	UGAUUGGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	UUUAUGGC	35273
5990	5040	ACAUCACC	G	UUUUUGUC	12989	GACAAAAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	GGUGAUGU	35274
5996	5034	CCGUUUUU	G	UCCACUUAU	12990	AUAGUGGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AAAAACGG	35275
6007	5023	CACUAUUG	G	UGAGCCUG	12991	CAGGCUCA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CAAUAGUG	35276
6011	5019	AUUGGUGA	G	CCUGAUGU	12992	ACAUACAG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	UCACCAAU	35277
6018	5012	AGCCUGAU	G	UUCACAGU	12993	CACUGGAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AUCAGGCU	35278
6024	5006	AUGUUCCA	G	UGGGGAAG	12994	CUUCCCCA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	UGGAACAU	35279
6032	4998	GUGGGGAA	G	UCCAAAGU	12995	ACUUUGGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	UUCCCCCAC	35280
6039	4991	AGUCCAAA	G	UCACGGCC	12996	GGCCGUGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	UUUGGACU	35281
6045	4985	AAGUCACG	G	CCCCGAUU	12997	AAUCGGGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CGUGACUU	35282
6064	4966	UCCUUCAG	G	UGUUUUGA	12998	UCAAAAAC	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CUGAAGGA	35283
6066	4964	CUUCAGGU	G	UUUUUAAC	12999	GUUCAAAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	ACCUGAAG	35284
6082	4948	CACCCUG	G	UUUCGUUU	13000	AGACGAAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CAGGGGUG	35285
6087	4943	CUGGUUUC	G	UCUGGACG	13001	CGUCCAGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	GAACCCAG	35286
6095	4935	GUCUGGAC	G	UUCUUAAC	13002	GUUAAGAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	GUCCAGAC	35287
6104	4926	UUCUUAAC	G	UUCUUGCC	13003	GGCAAGAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	GUUAAGAA	35288
6110	4920	ACGUUCUU	G	CCAGGUUC	13004	GAACCCUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AAGAACGU	35289
6115	4915	CUUGCCAG	G	UUCACCA	13005	UGGUGGAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CUGGCAAG	35290
6133	4897	AAUCAUCU	G	CACCUCAU	13006	AUGAGGUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AGAUGAUU	35291
6145	4885	CUCAUCCU	G	CCCGUUC	13007	GAACCGGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AGGAUGAG	35292
6149	4881	UCCUGCCC	G	UUCACAUU	13008	AAGUGGAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	GGGCAGGA	35293
6158	4872	UUCACAUU	G	UGCUGCAA	13009	UUGCAGCA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AAGUGGAA	35294
6160	4870	CCACUUGU	G	CUGCAAUU	13010	AAUUGCAG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	ACAAGUGG	35295
6163	4867	CUUGUGCU	G	CAAUUUCC	13011	GGAAAUUG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AGCACAAG	35296
6175	4855	UUUCAGG	G	UCCUCCGU	13012	ACGGAGGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CCUGGAAA	35297
6182	4848	GGUCCUCC	G	UAACAAAG	13013	CUUUGUUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	GGAGGACC	35298
6190	4840	GUACAAA	G	UCGAUCCU	13014	AGGAUCGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	UUUGUUAC	35299
6209	4821	UUGACACU	G	CCCCAGUA	13015	UACUGGGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AGUGUCA	35300
6215	4815	CUGCCCCA	G	UAUGGGUC	13016	GACCCAUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	UGGGGCAG	35301
6221	4809	CAGUAUGG	G	UCCAGGCG	13017	CGCCUGGA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CCAUAUCG	35302
6227	4803	GGGUCCAG	G	CGGCCUUC	13018	GAGGGCCG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CUGGACCC	35303
6230	4800	UCCAGGCG	G	CCCUUCC	13019	GGAGAGGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CGCCUUGA	35304
6239	4791	CCCUUCC	G	CUCAUCAA	13020	UUUAUGAG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	GGAGAGGG	35305
6249	4781	UCAUCAA	G	CGGCUCCU	13021	AGGAGCCG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	UUUGAUGA	35306
6252	4778	UCAAAGCG	G	CUCCUUUU	13022	AAAAGGAG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CGCUUUGA	35307
6261	4769	CUCCUUUU	G	UUGUAUGC	13023	GCAUACAA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AAAAGGAG	35308
6264	4766	CUUUGUUU	G	UAUGCCAA	13024	UUGGCAUA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AACAAAAG	35309
6268	4762	UGUUGUAU	G	CCAAAGGG	13025	CCCUUUGG	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	AUACAACA	35310
6276	4754	GCCAAAGG	G	UGUGGAAA	13026	UUUCCACA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	CCUUUGGC	35311
6278	4752	CAAAGGGU	G	UGGAAAAC	13027	GUUUUCCA	GGAGGAAAACUCCUUCAAGGACAUCGUCGGG	ACCCUUUG	35312

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6302	4728	ACCAUCAC G CCGCUCC	13028	GGAGCGGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GUGAUGGU	35313
6306	4724	UCACGCC G CUCCUGU	13029	AGCAGGAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GGGCGUGA	35314
6312	4718	CCGCUCCU G CUUGAUA	13030	UUAUCAAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AGGAGCGG	35315
6323	4707	UGAUAACU G CCGAGCAG	13031	CUGCUCGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AGUUAUCA	35316
6328	4702	ACUCCGGA G CAGCCAC	13032	GUGGCGUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UCGGCAGU	35317
6331	4699	CGCGAGCA G CCACGAG	13033	CUCGUGGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UGCUCGGC	35318
6339	4691	GCCAGCA G UCAUGAU	13034	GAUCAUGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UCGUGGGC	35319
6350	4680	AUGAUCCU G UAGACGCC	13035	GGCGUCUA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AGGAUCAU	35320
6356	4674	CUGUAGAC G CCGGUGU	13036	ACCACCGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GUCUACAG	35321
6360	4670	AGACGCC G UGGUCGUG	13037	CACGACCA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	CGGCGUCU	35322
6363	4667	CGCCGGUG G UCGUGUCC	13038	GGACACGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	CACGGGCG	35323
6366	4664	CGGUGGUC G UGUCCCC	13039	GGGGACA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GACCACCG	35324
6368	4662	GUGGUCGU G UCCCCCU	13040	AAGGGGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	ACGACCAC	35325
6380	4650	CCUUUUU G UAUCCUU	13041	AAGGAGUA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AAAAAGGG	35326
6391	4639	CUCUUUG G UGAGGGAG	13042	CUCCCUCA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	CAAAAGGAG	35327
6399	4631	GUGAGGGA G UGUCCAC	13043	GUGGGACA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UCCUCAC	35328
6401	4629	GAGGGAGU G UCCACAA	13044	UUGUGGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	ACUCCUC	35329
6413	4617	CACAACAC G CUCCUCU	13045	AGAGAGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GUGUUGUG	35330
6426	4604	CUCUUUU G UGUUUGG	13046	CCAAUACA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AAAGAGAG	35331
6428	4602	CUCUUUG G UAUUGGAG	13047	CUCCAAUA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	ACAAAGAG	35332
6438	4592	AUUGGAGA G UUAUCCAA	13048	UUGGAUAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UCUCCAAU	35333
6463	4567	UACUGAG G CAAGAUG	13049	CAAUCUUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	CCUCAGUA	35334
6471	4559	GCAAGAUU G CCGAGGG	13050	CCCCGGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AAUCUUGC	35335
6480	4550	CCAGGGG G UGUACGA	13051	UGCGUACA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	CCCCUGGG	35336
6482	4548	CAGGGGU G UACGCACU	13052	AGUGCGUA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	ACCCCCUG	35337
6486	4544	GGGUGUAC G CACUAAUC	13053	GAUUAUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GUACACCC	35338
6495	4535	CACUAUC G CGAGACAG	13054	CUGUCUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GAUUAUG	35339
6514	4516	CAUUCUGA G CAUCCAUA	13055	UAUGAUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UCAGAAUG	35340
6532	4498	CUUCCAG G UGUCCUG	13056	CAGGACA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	CUUGGAAG	35341
6534	4496	UCCNAGU G CUCCUGA	13057	UCCAGGAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	ACCUUGGA	35342
6553	4477	AUUCAGU G CUGGAAGU	13058	ACUCCAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UCAUGAAU	35343
6560	4470	AGCUGAA G UUUCCAUC	13059	GAUGGAAA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UUCACGCU	35344
6577	4453	AUCAUAA G CCGCACAU	13060	AUGUGCGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UUGAUGAU	35345
6580	4450	AUCAAGC G CACAUA	13061	UUGAUGUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GGCUUGAU	35346
6596	4434	ACUUUUC G CUGGAGCC	13062	GGCUCGAG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GAAAGAGU	35347
6602	4428	UCGUCGA G CCUGUAU	13063	AUUCAGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	UCGAGCGA	35348
6606	4424	UCGAGCU G UAAUUUCU	13064	AGAAUUA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AGGUCUGA	35349
6615	4415	UAAUUUCU G CAUCACUU	13065	AAGUGAUG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AGAAUUA	35350
6635	4395	CAGGAAU G UCCGCCGU	13066	ACGGCGGA GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	AUUUCCUG	35351
6639	4391	AAAUUCC G CCGUUCUC	13067	GAGAACGG GGAGGAAAUCUCCUUCAAGGACAUUGUCCGGG	GGACAUUU	35352

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6642	4388	UGUCGCC G UUCUCUA	13068	UGAGAGAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	GGCGGACA	35353
6663	4367	ACAUAUCU G UGAUUUC	13069	GAAAUCAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AGAUUGU	35354
6687	4343	UCACGAAA G CAGCAAC	13070	GUUUGCUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UUUCGUGA	35355
6690	4340	CGAAGCA G CAACAUG	13071	CAUGUUUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UGCUIUCG	35356
6700	4330	AAACAUGA G CCCCGCA	13072	UCGCGGGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UCAUGUUU	35357
6705	4325	UGAGCCC G CGAUGUC	13073	GACUAUCG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	GGGGCUCA	35358
6711	4319	CCGGAUA G UCAUUGA	13074	UCCAUAUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UAUCGCGG	35359
6723	4307	UUGAAUG G CCAUGGAG	13075	CUCCAUGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	CAUUCCAA	35360
6731	4299	GCCAAUGA G UCAUUGC	13076	GACUAUGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UCCAUGGC	35361
6737	4293	GAGUCAU G UCAAGCUC	13077	GAGCUUGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AUTGACUC	35362
6742	4288	AAUGUCAA G CUCUGCA	13078	UGGCAGAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UUGACAUU	35363
6747	4283	CAAGCUCU G CCAGCCU	13079	AGGGCUGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AGAGCUUG	35364
6751	4279	CUCUGCCA G CCUCGCA	13080	UCGGAGGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UGGCAGAG	35365
6765	4265	CGACGAUG G CAAACAU	13081	AAUGUUUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	CAUCGUCG	35366
6776	4254	AACAUAUG G CCGACAG	13082	GCUGUCGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	CUAUUGUU	35367
6783	4247	GGCGACA G CUGUCAUC	13083	GAUGACAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UGUCGGCC	35368
6786	4244	CGACAGCU G UCAUCACU	13084	AGUGAUGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AGCUGUCG	35369
6798	4232	UCACUUA G UUGCGGC	13085	GCCCGCAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UGAAGUGA	35370
6801	4229	CUUCAGUU G CGGCGAU	13086	AUGGCCCG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AACUGAAG	35371
6805	4225	AGUUGCG G CCAUCCG	13087	GCGGUAAC	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	CCGCAACU	35372
6812	4218	GGCAUCC G CGUUACG	13088	CGUAAACG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	GGAUGGCC	35373
6814	4216	CCAUCGC G UUAACGGU	13089	ACCGUAAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	GCGGAUGG	35374
6821	4209	CGUUUACG G UUGGAUC	13090	GAUCCCAA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	CGUAAACG	35375
6834	4196	GAUCACAU G CAAUCAGU	13091	ACUGAUUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AUGUGAUC	35376
6841	4189	UGCAUUA G UCCAGCAG	13092	CUGCUGGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UGAUUGCA	35377
6846	4184	UCAGUCCA G CAGCAAGG	13093	CCUUGCUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UGGACUGA	35378
6849	4181	GUCCAGCA G CAAGGAUC	13094	GAUCCUUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UGCUGGAC	35379
6863	4167	AUCAUGGG G UUGAAAAG	13095	CUUUUCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	CCCAUGAU	35380
6871	4159	GUUGAAA G UCCUGUTG	13096	CAACAGGA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UUUUCAAC	35381
6876	4154	AAAGUCCU G UUGAGGCU	13097	AGCCUCA	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AGGACUUU	35382
6882	4148	CUGUUGAG G CUAGAGCC	13098	GGCUCUAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	CUCAACAG	35383
6888	4142	AGGUAGA G CCAAGCAU	13099	AUGCUIUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UCUAGCCU	35384
6893	4137	AGAGCCAA G CAUAGCAG	13100	UUGCUAUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UUGGCUCU	35385
6898	4132	CAAGCAUA G CAGACUUG	13101	CAAGUCUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UAUGCUUG	35386
6906	4124	GCACACU G CUCCUUUC	13102	GAAGGAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AAGUCUCG	35387
6921	4109	UCUUUUU G CAGCUGCA	13103	UGCAGCUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AAAAAGA	35388
6924	4106	UUUUUGCA G CUGCACUC	13104	GAGUCGAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UGCAAAAA	35389
6927	4103	UUGCAGCU G CACUCCUC	13105	GAGGAGUG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AGCUGCAA	35390
6950	4080	CUAGACAA G CUGCCUUA	13106	AUAGGCAG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	UUGAUUCAG	35391
6953	4077	AUCAAGCU G CCUAUUC	13107	GGAAUAGG	GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG	AGCUTUGAU	35392

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6973	4057	CAUCAACA G CAGUAUCC	13108	GGUAUCUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UGUUAUG	35393
6976	4054	CAACAGCA G UAUCUGU	13109	ACAGGAUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UGCUGUUG	35394
6983	4047	AGUAUCCU G UACACAUC	13110	GAUGUGUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	AGGAUACU	35395
7001	4029	AGAUUCA G CAUCUCAG	13111	CUGAGGUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UUGAAUCU	35396
7009	4021	GCAUCCA G CCGGGUG	13112	CACCGGUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UGAGAUGC	35397
7015	4015	CAGCCGG G UGUUAGCA	13113	UGCUAACA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CCGGGUCU	35398
7017	4013	GCCGGGU G UUAGCAGG	13114	CCUGCUAA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	ACCCGGGC	35399
7021	4009	GGUGUUA G CAGGGCUA	13115	UAGCCUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UAAACACC	35400
7026	4004	UUAGCAGG G CUAGCAGC	13116	GCUGCUAG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CCUGCUAA	35401
7030	4000	CAGGGCUA G CAGCGGAA	13117	UCCCGUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UAGCCUG	35402
7033	3997	GGUAGCA G CGGAACAA	13118	UUGUCCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UGCUGACC	35403
7046	3984	ACACCAC G UUUAGU	13119	ACAUCAA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	GUGGUUGU	35404
7053	3977	CGUUGAU G UCGUUGUG	13120	CACAACGA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	AUCAACG	35405
7056	3974	UUGAUGC G UUGUGAAU	13121	AUUCACAA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	GACAUCAA	35406
7059	3971	AUGUCGUU G UGAUUGUU	13122	AACAUUCA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	AACGACAU	35407
7065	3965	UUGUGAU G UUAUGGCU	13123	AGCCAUAA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	AUUCACAA	35408
7071	3959	AUGUUAUG G CUUCACAU	13124	ACUGAGAG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CAUAACAU	35409
7078	3952	GGUCUCA G UAUCAUCC	13125	GGUAUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UGAGAGCC	35410
7089	3941	UCAUCCAA G CUACCGCC	13126	GGCGUAG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UUGGAUGA	35411
7095	3935	AAGCUACC G CCAGUGAA	13127	UUCACUGG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	GGUAGCUU	35412
7099	3931	UACCGCCA G UGAUUA	13128	UGAAUUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UGGCGGUA	35413
7129	3901	CUCCAGA G CAGAAUUU	13129	AAAUUCUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UCUGGGAG	35414
7139	3891	AGAAUUG G CGGGCAUC	13130	GAUGCCCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CAAAUUCU	35415
7143	3887	UUUGGCG G CAUCGUGA	13131	UCACGAUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CCGCCAAA	35416
7148	3882	CGGGCAUC G UGAUAAGC	13132	GCUAUUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	GAUGCCCG	35417
7155	3875	CGUGAUA G CCAUUGA	13133	UCAAUUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UUAUCACG	35418
7173	3857	AGAAACA G CCGCCAAC	13134	GUUGCGG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UGUUUUUC	35419
7176	3854	AAACAGC G CCAACAUC	13135	GAUGUUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	GGCUGUUU	35420
7193	3837	AACAAAU G UUCUCCUG	13136	CAGGAGAA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	AUTUUGUU	35421
7202	3828	UUCUCCUG G UUGGUCCA	13137	UGGACCAA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CAGGAGAA	35422
7206	3824	CCUGGUU G UCAUCUC	13138	GAGAUGGA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CAACCAGG	35423
7215	3815	UCCAUCU G CUUGAGA	13139	UCUCAAG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	GAGAUGGA	35424
7230	3800	GAACGAU G CCACCAUA	13140	UAUGGUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	AUCGUUUC	35425
7246	3784	AAACACU G UUGUAUCU	13141	AGAUACAA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CAGUGUUU	35426
7249	3781	CACUGGU G UAUCUUGA	13142	UCAAGUA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	AACCAGUG	35427
7260	3770	UCUUGAG G UCGCCAU	13143	CAUGGCGA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	CUUCAAGA	35428
7263	3767	UGAAGGU G CCAUGAGC	13144	GCUCAUG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	GACCUUCA	35429
7270	3760	CGCCAUGA G CGCCAAGU	13145	ACUUGCG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UCAUGGCG	35430
7272	3758	CCAUGAG G CCAAGUGU	13146	ACAUUGG GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	GCUCAUGG	35431
7277	3753	AGCGCCA G UGUACCAC	13147	GUGGUACA GGAGGAAACUCCCUCAAGGACAUUCGUCCGGG	UTUGGCGU	35432

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7279	3751	CGCCAAGU G UACCAAGU	13148	ACGUGGUA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACUUGGCG	35433
7286	3744	UGUACCAC G UCUCUCC	13149	GGAGGAGA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GUGGUACA	35434
7308	3722	UAGAUUCU G CGAAGAGU	13150	AGCUUUCG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGAAUCUA	35435
7314	3716	CUGGAAA G CUGCCGCC	13151	GGGGGCG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UUUCGCGA	35436
7317	3713	CGAAAGU G CCCCACCC	13152	GGUGGGG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGCUUUCG	35437
7337	3693	AUGACA G CGUACAC	13153	GUGUACG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UAUUGUAU	35438
7339	3691	GACUAGC G UAACACAU	13154	AUGUGUUA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GCUAUGUC	35439
7350	3680	ACAACA G UGUAGUA	13155	UACUUACA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGAUGUGU	35440
7352	3678	ACAUCAGU G UAAGUAAU	13156	AUUACUUA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG ACUGAUGU	35441
7356	3674	CAGUGUA G UAAUGGCC	13157	GGGCAUUA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UUAACACUG	35442
7361	3669	UAAUGAAU G CCCCACAA	13158	UUUGGGG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AUUACUUA	35443
7381	3649	CAGACUA G CAGAGCAA	13159	UUGCUCUG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UAGUCCUG	35444
7386	3644	CUAGAGA G CAUUCAGU	13160	ACUGAUUG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UCUGCUAG	35445
7393	3637	AGCAUCA G UAUAGCUG	13161	CAGCUAUA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGAUUGCU	35446
7398	3632	UCAGUUA G CUGGCAUG	13162	CAUGCCAG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UAUACUGA	35447
7402	3628	UAUAGCUG G CAUGCUGA	13163	UCAGCAUG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CAGCUAUA	35448
7406	3624	GCUGCAU G CUGAUCUU	13164	AAGAUCAG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AUGCCAGC	35449
7416	3614	UGAUCUUG G CUGUCCAC	13165	GUGGACAG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CAAGAUA	35450
7419	3611	UCUUGGU G UCCACUUC	13166	GAGGUGGA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGCCAAGA	35451
7430	3600	CACUCUU G CGAAGGAC	13167	GUCCTUUG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AAGAGGUG	35452
7446	3584	CCUCCUG G UGGCCAAG	13168	CUUGGCCA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CCAGGAGG	35453
7449	3581	CCUGGGUG G CCAAGAAC	13169	GUUCUUGG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CACCCAGG	35454
7469	3561	ACCAAGG G CCAACUG	13170	CAGUUGGG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CUUCUGGU	35455
7484	3546	UGAAAGG G UCAUAUAU	13171	AGUAUUGA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CCUUUUA	35456
7497	3533	UCAUAUA G CAUUAUA	13172	UUUAUAUG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGAUAUGA	35457
7506	3524	CAUUAUA G CAUUCACU	13173	AGUGAAUG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UUAUAUUG	35458
7516	3514	AUUCACUU G UGACUGCA	13174	UGCAGUCA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AAGUGAAU	35459
7522	3508	UUGUGACU G CACGAGGG	13175	CCCUCGUG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGUCACAA	35460
7530	3500	GCACGAGG G UCUUUUA	13176	UGAAAAGA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CCUCGUGC	35461
7543	3487	UUCAUCAU G UCUCUGUG	13177	CACAGAGA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AUGAUGAA	35462
7549	3481	AUGUCUCU G UGGUCUGA	13178	UCAGACCA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGAGACAU	35463
7552	3478	UCUCUGUG G UCUGAUCU	13179	AGAUCAUA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CACAGAGA	35464
7577	3453	UACCAACA G CCGUCUUC	13180	GACAGCGG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGUUGGUA	35465
7580	3450	CAACAGCC G CUGUCAGU	13181	ACUGACAG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GGCUGUUG	35466
7583	3447	CAGCCGCU G UCAGUUUG	13182	CAAACTUA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG AGCGGCUG	35467
7587	3443	CGUGUICA G UUUUGUAG	13183	CUACCAA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGACAGCG	35468
7592	3438	UCAGUUUG G UAGCGCAG	13184	CUGCGCUA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG CAAACUGA	35469
7595	3435	GUUUGGUA G CGCAGUGG	13185	CCACUGCG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UACCAAAC	35470
7597	3433	UUGGUAGC G CAGUGGUG	13186	CACCACUG GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG GCUACCAA	35471
7600	3430	GUAGCGCA G UGGUGGUA	13187	UACCACCA GGAGGAAAACUCCCUCAAGGACAUCGUCGCGG UGCGCUAC	35472

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7603	3427	GCGCAGUG G UGGUAAGG	13188	CCUUACCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CACUGCGC	35473
7606	3424	CAGUGGUG G UAAGGUGC	13189	GCACCUUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CACCACUG	35474
7611	3419	GUGGUAAG G UGCAGCUC	13190	GAGCUGCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CUUACCAC	35475
7613	3417	GGUAAGGU G CAGCUCCU	13191	AGGAGCUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACCUUACC	35476
7616	3414	AAGGUGCA G CUCCUGCA	13192	UGCAGGAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGCACCUU	35477
7622	3408	CAGCUCCU G CAGCACCA	13193	UGGUGCUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGGAGCUG	35478
7625	3405	CUCCUGCA G CACCAAUC	13194	GAUUGGUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGCAGGAG	35479
7635	3395	ACCAAUUC G UUAUCAAC	13195	GUUGAUAA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGAUUGGU	35480
7649	3381	AACUUAUC G CUCUCUGU	13196	ACAGAGAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GGAAAGUU	35481
7656	3374	CGCUCUCU G UGGUGGUG	13197	CACCACCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGAGAGCG	35482
7659	3371	UCUCUGUG G UGGUGCGA	13198	UCGCACCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CACAGAGA	35483
7662	3368	CUGUGGUG G UGCAGUG	13199	CACUCGCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CACCACAG	35484
7664	3366	GUGGUGGU G CGAGUGGC	13200	GCCACUCG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACCACCAC	35485
7668	3362	UGGUGCGA G UGGCAGGU	13201	ACCUGCCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UCGCACCA	35486
7671	3359	UGCGAGUG G CAGGUCCA	13202	UGGACCUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CACUCGCA	35487
7675	3355	AGUGGCAG G UCCACGGU	13203	ACCGUGGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CUGCCACU	35488
7682	3348	GUUCCAGG G UGUCCGCA	13204	UGCGGACA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CGUGGACC	35489
7684	3346	UCCACGGU G UCCGCAGC	13205	GCUGCGCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACCGUGGA	35490
7688	3342	CGUGUCC G CAGCUCUC	13206	GAGAGCUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GGACACCG	35491
7691	3339	UGUCCGCA G CUCUCACU	13207	AGUGAGAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGCGGACA	35492
7704	3326	CACUCAGG G UGACCGUA	13208	UACGGUCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCUGAGUG	35493
7710	3320	GGGUGACC G UAGUUCCU	13209	AGGAACUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GGUCACCC	35494
7713	3317	UGACCGUA G UUCCUGGG	13210	CCCAGGAA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UACGGUCA	35495
7721	3309	GUUCCUGG G CAGUAUUC	13211	GAUUAUCG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCAGGAAC	35496
7724	3306	CCUGGGCA G UAAUCGAA	13212	UUCGAUUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGGCCAGG	35497
7733	3297	UAAUCGAA G UCAAUUCU	13213	GAGAUAUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UUCGAUUA	35498
7748	3282	UCUACCCG G CCTUUCGUC	13214	GACGAAGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CGGUAAGA	35499
7754	3276	CGGCCUUC G UCCCAUGG	13215	CCAUGGGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GAAGGCCG	35500
7763	3267	UCCCAUGG G CCCUGGUU	13216	AACCAGGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CCAUGGGA	35501
7769	3261	GGGCCUGG G UUUUGUGU	13217	ACACAAAA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CAGGGCCC	35502
7774	3256	CUGGUUUU G UGUUUUGU	13218	ACAAGACA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AAAAACCG	35503
7776	3254	GGUUUUUG G UCUUGUAC	13219	GUACAAGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	ACAAAAAC	35504
7781	3249	UGUGUUUU G UACCCAGG	13220	CCUGGUUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AGACACAA	35505
7789	3241	GUACCCAG G UCUCCGAU	13221	AUCGGAGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CUGGGUAC	35506
7799	3231	CUCCGAUU G UGAUUGCU	13222	AGCAAUCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AAUCGGAG	35507
7805	3225	UUGUGAUU G CUUCGUGG	13223	CCACGAAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	AAUCACAA	35508
7810	3220	AUUGUUUC G UGGUCCCG	13224	CGGGACCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GAAACAAU	35509
7813	3217	GCUCUGUG G UCCCGCCA	13225	UGGCGGGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	CACGAAGC	35510
7818	3212	GUGGUCCC G CCAGUGUG	13226	CACAUUGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	GGGACCAC	35511
7822	3208	UCCCGCCA G UGUGACUG	13227	CAGUCACA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG	UGGCGGGA	35512

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7824	3206	CCGCCAGU G UGACUGGU	13228	ACCAGUCA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	ACUGGCGG	35513
7831	3199	UGUGACUG G UAUUAUCA	13229	UGAUAAUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CAGUCACA	35514
7841	3189	AUUAUCAA G UCACUCUC	13230	GAGAGUGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UUGAUAAU	35515
7862	3168	AUUCCAUC G CCCACAA	13231	UUGUGGGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	GAUGGAAU	35516
7872	3158	CCCACAAG G UAUGCGUC	13232	GACGCAUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CUUGUGGG	35517
7876	3154	CRAGGUAG G CGUCUCAG	13233	CUGACAGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	AUACCUUG	35518
7878	3152	AGGAUUGC G UCUCAGGC	13234	GCCUGAGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	GCAUACCU	35519
7885	3145	CGUCUCAG G CCACGUAC	13235	GUACGUGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CUGAGACG	35520
7890	3140	CAGGCCAC G UACAUGAU	13236	AUCAUGUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	GUGGCCUG	35521
7917	3113	CCAGAACU G CCUUUCA	13237	UGAAAGGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	AGUUCUGG	35522
7927	3103	CCUUUCAA G CUUCCACG	13238	CGUGGAAG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UUGAAAGG	35523
7935	3095	GCTUCCAC G UAUAUUG	13239	CAAUGAUA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	GUGGAAGC	35524
7945	3085	AUCAUUGA G CUGCUUU	13240	AAAGCAGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UCAAUGAU	35525
7949	3081	UUGAGCCU G CUUCAAU	13241	AUTGAAAG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	AGGCUCAA	35526
7970	3060	UAGGACAG G UCACUGUG	13242	CACAGUGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CUGUCCUA	35527
7976	3054	AGGUACU G UGGAUCCG	13243	GCGAUCCA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	AGUGACCU	35528
7983	3047	UGUGGAUG G CCAAGUUG	13244	CAACUUGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	GAUCCACA	35529
7988	3042	AUGGCCAA G UUGUUCUU	13245	AAGAACA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UUGGCCAU	35530
7991	3039	GCCAAGUU G UUCUUGAC	13246	GUCAAGAA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	AACUUGGC	35531
8001	3029	UCUUGACA G CCGUCCA	13247	UGGAACGG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UGUCAAGA	35532
8004	3026	UGACAGCC G UUCAUUG	13248	CAUUGGAA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	GGCUUGUA	35533
8021	3009	AUCUUGCA G UCACAUUC	13249	GAUUGUGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UCGAAGAU	35534
8031	2999	CACAUUCA G UUGUGUUG	13250	CAACACAA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UGAAUGUG	35535
8034	2996	AUUCAGUU G UGUUGCUC	13251	GAGCAACA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	AACUGAAU	35536
8036	2994	UCAGUUGU G UUGCUCUC	13252	GAGAGCAA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	ACAACUGA	35537
8039	2991	GUUGUGUU G CUCUCUCU	13253	AGAGAGAG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	AACACAA	35538
8067	2963	ACAUCGGA G UGUUGGUG	13254	CACCAACA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UCGGAUGU	35539
8069	2961	AUCCGAGU G CUGGUGAG	13255	CUCACCAG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	ACUCGGAU	35540
8073	2957	GAGUGCUG G UGAGACCA	13256	UGGUCUCA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CAGCACUC	35541
8105	2925	ACUUCUAA G CUAAUCCA	13257	UGGAUUGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UUAGAAGU	35542
8115	2915	UAUUCCAA G CGCAUUC	13258	GAUUCGCG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UUGGAAUA	35543
8117	2913	UUCCAAGC G CGAUUCUG	13259	CAGAAUCG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	GCUUGGAA	35544
8127	2903	GAUUCUGA G UCGGACAU	13260	AUGUCCGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UCAGAAUC	35545
8142	2888	AUUCUUUG G UCUCGGA	13261	UCCGGAGA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CAAGGAAU	35546
8166	2864	CCACAAAG G UGUUGUUG	13262	CAACAACA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CUUUGUGG	35547
8168	2862	ACAAAGGU G UUGUUGGC	13263	GCCAACA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	ACCUUUGU	35548
8171	2859	AAGUGUUU G UUGGCGAG	13264	CUCGCCAA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	AACACCUU	35549
8175	2855	UGUUGUUG G CGAGUUCU	13265	AGAACUCG GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CAACAACA	35550
8179	2851	GUUGGCGA G UUCUGGUG	13266	CACCAGAA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	UCGCCAAC	35551
8185	2845	GAGUUCUG G UGCAAAUA	13267	UAUUGCA GGAGGAAAACUCCCUUCAAAGGACAUCGUCCGGG	CAGAACUC	35552

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8187	2843	GUUUGGU G CAAUAAA	13268	UUUAUUUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACCAGAAC	35553
8211	2819	UUCCCCAG G CUUCCAG	13269	CUGGAAGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUGGGGAA	35554
8219	2811	GUUUUCCA G CCAUUUC	13270	GAAUUUGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGGAAGGC	35555
8238	2792	AUUUUUCC G UGUUGGCG	13271	CGCCACCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GGAATAAU	35556
8241	2789	UUUCCGUG G UGGGGGUG	13272	CACCGCCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CACGGAAA	35557
8244	2786	CCGUGGUG G CGUGAGG	13273	CUCACCCG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CACCACGG	35558
8247	2783	UGGUGGCG G UGAGGCGU	13274	ACGCCUCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CGCCACCA	35559
8252	2778	GGGUGAG G CGUUUAGG	13275	CCUAAACG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUCACCGC	35560
8254	2776	GGUGAGGC G UUUAGGUG	13276	CACCUAAA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GCCUCACC	35561
8260	2770	GGUUUAG G UGCUGACU	13277	AGUCAGCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUAAACGC	35562
8262	2768	GUUUAGGU G CUGACUUG	13278	CAAGUCAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACCUAAAC	35563
8270	2760	GUUGACUU G UACAUUCC	13279	GGAAUGUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGUCAGC	35564
8284	2746	UCCUCCU G UUUCUCAA	13280	UUGAGAAA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGGAGGGA	35565
8306	2724	ACACUAG G UCCACACC	13281	GGUGUGGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUUAGUGU	35566
8331	2699	UCAAAGA G UGUUCAGC	13282	GCUGAACA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UCUUUUGA	35567
8333	2697	AAAAGAGU G UUCAGCUU	13283	GAGCUGAA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACUCUUUU	35568
8338	2692	AGUGUUA G CUGGUCCU	13284	AGGACGAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGRAACACU	35569
8342	2688	UUCAGCUC G UCCUUCAC	13285	GUGAAGGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GAGCUGAA	35570
8352	2678	CUUUCACU G CUUCCAC	13286	GUGGGAAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGUGAAGG	35571
8368	2662	CAUUUGAU G CUCCAGUC	13287	GACUGGAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUCAAUUG	35572
8374	2656	AUGCUCGA G UCUGGAAA	13288	UUUCCAGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGGAGCAU	35573
8389	2641	AACUGAUC G UAGACCGC	13289	GCGGUCUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GAUCAGUU	35574
8396	2634	CGUAGACC G CACACUCC	13290	GGAGUGUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GGUCUACG	35575
8415	2615	CCUUAUGA G CUUUCUGA	13291	UCAGAAAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UCAUAAAG	35576
8433	2597	UGAUCUUG G CUAGGCCU	13292	AGGCCUAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CAAGAUA	35577
8438	2592	UUGGCUAG G CCUUGUGG	13293	CCACAAGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUAGCCAA	35578
8443	2587	UAGGCCUU G UGGCGUUU	13294	AAACGCCA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGGCCUA	35579
8446	2584	GCCUUGUG G CGUUUCAG	13295	CUGAAACG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CACAAGGC	35580
8448	2582	CUUGUGGC G UUUCAGGG	13296	CCCUGAAA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GCCACAAG	35581
8456	2574	GUUUCAGG G UAAUACUU	13297	AAGUAUUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CCUGAAAC	35582
8465	2565	UAAUACUU G UACCGGUC	13298	GACCGGUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGUAUUA	35583
8471	2559	UUGUACCG G UCCAUCCA	13299	UGGAUGGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CGGUACAA	35584
8481	2549	CCAUCCAA G CCUCCACA	13300	UGUGGAGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGGAUUG	35585
8495	2535	ACAUCAUU G UGUUUGAA	13301	UUCAUACA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAUGAUUU	35586
8497	2533	AUCAUUGU G UAUGAACA	13302	UGUUCAUA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACAAUUUA	35587
8524	2506	ACAUCUCA G CUCUUGCC	13303	GGCAAGAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGAGAUUU	35588
8530	2500	CAGUCUUU G CCGGCUGA	13304	UCAGCCGG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGAGCUG	35589
8534	2496	UCUUGCGG G CUGAUGUC	13305	GACAUCAG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CGGCAAGA	35590
8540	2490	CGGCUAGU G UCUAUGGC	13306	GCCAUAGA GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUCAGCCG	35591
8547	2483	UGUCUAUG G CACACCCA	13307	UGGGUGUG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CAUAGACA	35592

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8556	2474	CACACCA G	UGUACGG	13308	CGCUGACA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UGGUGUG	35593
8558	2472	CACCCAGU G	UCAGCGG	13309	CACGCUGA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	ACUGGGUG	35594
8562	2468	CAGUGUCA G	CGUGCAG	13310	CGUGCACG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UGACACUG	35595
8564	2466	GUGUCAGC G	UGCACGUU	13311	AACGUGCA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	GCUGACAC	35596
8566	2464	GUCAGCGU G	CACGUUCA	13312	UGAACGUG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	ACGUCGAC	35597
8570	2460	GCGUGCAC G	UUCACGGA	13313	UCCGUGAA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	GUGCACGC	35598
8587	2443	GAGNAGA G	CAGAACUC	13314	GAGUUCUG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UCUUCUCU	35599
8604	2426	CUCCAACU G	CGAGAAC	13315	GUUUCUCG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AGUUGGAG	35600
8613	2417	CGAGAAC G	UGAGAGCU	13316	AGCUCUCA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	GUUUCUCG	35601
8619	2411	ACGUGAGA G	CUAUGGAC	13317	GUCCAUA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UCUCACGU	35602
8637	2393	UAUCACGA G	CAUUGAUG	13318	CAUCAUUG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UCGUGAUA	35603
8645	2385	GCAUUGAU G	CCCAUCCA	13319	UGGAUUGG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AUCAUUGC	35604
8664	2366	ACAGGAGA G	CCCCCAGC	13320	GCUGGGGG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UCUCCUGU	35605
8671	2359	AGCCCCA G	CAUCCUU	13321	AAGGAUUG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UGGGGGCU	35606
8680	2350	CAUCCUU G	CGUUAUCC	13322	GGAUAAAC	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AAGGAUUG	35607
8682	2348	AUCCUUGC G	UUAUCCAG	13323	CUGGAUAA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	GCAAGGAU	35608
8696	2334	CAGGACAU G	CCUCCGAA	13324	UUCGGAGG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AUGUCCUG	35609
8707	2323	UCCGAACA G	UGAGCGGA	13325	UCCGCUCA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UGUUCGGA	35610
8711	2319	AACAGUGA G	CGGAUUGC	13326	GCAUUCUG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UCACUGUU	35611
8718	2312	AGCGGAU G	CUCCUCCG	13327	CGGAGGAG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AUUCGCCU	35612
8742	2288	GAUGGACA G	CCUUCCCA	13328	UGGGAAGG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UGUCCAU	35613
8757	2273	CAUCUGAG G	UGAACACC	13329	GGUGUUA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	CUCAGUUG	35614
8783	2247	GAUCCAAA G	UCCCAAGC	13330	CGUUGGGA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UUUGGAUC	35615
8790	2240	AGUCCCAA G	CUGUGUCU	13331	AGACACAG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UUUGGACU	35616
8793	2237	CCCAAGCU G	UGUCUCCU	13332	AGGAGACA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AGCUUGGG	35617
8795	2235	CAAGCUGU G	UCUCCUAG	13333	CUAGGAGA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	ACAGCUUG	35618
8805	2225	CUCCUAGA G	CGGCUAGU	13334	ACUAGCCG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UCUAGGAG	35619
8808	2222	CUAGAGCG G	CUAGUCUC	13335	GAGACUAG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	CGCUCUAG	35620
8812	2218	AGCGGCUA G	UCUCUGCG	13336	CGCAGAGA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	UAGCCGCU	35621
8818	2212	UAGUCUCU G	CGUCCUUU	13337	AAGGAGCG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AGAGACUA	35622
8820	2210	GUCUCUGC G	CUCCUUUG	13338	CAAGGAGG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	GCAGAGAC	35623
8832	2198	CUUUGAGG G	UGGUGUGA	13339	UACAACCA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	CCUCAAG	35624
8835	2195	UGAGGGUG G	UUGUAAAG	13340	CUUUACAA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	CACCCUCA	35625
8838	2192	GGGUGGUU G	UAAAGGCU	13341	AGCCUUUA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AACCACCC	35626
8844	2186	UUGUAAAG G	CUUUGCCA	13342	UGGCAAG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	CUUUACAA	35627
8849	2181	AAGCUUUU G	CCAAUGCU	13343	AGCAUUGG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AAAGCCUU	35628
8855	2175	UUGGCAAU G	CUGCUUCC	13344	GGAAGCAG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AUUGGCAA	35629
8858	2172	CCAAUGCU G	CUUCCAGA	13345	UCUGGAAG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AGCAUUGG	35630
8870	2160	CCAGACUU G	UGCCAAUG	13346	CAUUGGCA	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	AAGUCUGG	35631
8872	2158	AGACUUUG G	CCAAUGGU	13347	ACCAUUGG	GGAGAAAACUCCUUCAAGGACAUCGUCGGG	ACAAGUCU	35632

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8879	2151	UGCAAUG G UGAUUGAU	13348	AUCAAUCA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CAUUGGCA	35633
8890	2140	AUUGAUCU G UUGUUCUC	13349	GAGAACAA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AGAUCAAU	35634
8893	2137	GAUCUUU G UUCUCCUC	13350	GAGGAA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AACAGAU	35635
8903	2127	UUCUCCU G CCCACCAC	13351	GUGGUGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AGAGGAGA	35636
8915	2115	ACCACUAU G UAUGAGUC	13352	GACUUA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AUAGUGGU	35637
8921	2109	AUGUAUGA G UCUCCAA	13353	UUUGGAG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	UCAUACAU	35638
8932	2098	UCCAAAGG G UGGUCCA	13354	UGGAACCA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CCUUUGGA	35639
8935	2095	AAAGGGUG G UUCCAAU	13355	AAUUGGAA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CACCCUUU	35640
8958	2072	GGACCUUA G CGUUGGCC	13356	GGCCAAAG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	UAAAGGUCC	35641
8960	2070	ACUUAGC G UUGGCCGU	13357	ACGGCCAA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	GCUAAGGU	35642
8964	2066	UAGCGUUG G CCGUGGCC	13358	GGCCACGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CAACGCUA	35643
8967	2063	CGUUGGCC G UGGCCACU	13359	AGUGGCCA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	GGCCAAAG	35644
8970	2060	UGGCCGUG G CCACUGAA	13360	UUCAGUGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CACGGCCA	35645
8987	2043	ACAAAGG G UGACAGU	13361	ACUGUCA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CCUUUUGU	35646
8994	2036	GGUUGACA G UGACCAA	13362	AUUGUCA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	UGUCAACC	35647
9005	2025	ACCAAUU G CCACUGG	13363	CCAGUGGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AGAUUGGU	35648
9013	2017	GCCACUG G CGUUGGU	13364	ACCUAACG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CAGUGGGC	35649
9015	2015	CCACUGG G UUAGGUG	13365	CGACCUAA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	GCCAGUGG	35650
9020	2010	GGCGUUG G UCGUUCAA	13366	UUGAACGA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CUAACGCC	35651
9023	2007	GUUAGGUC G UUCAUGA	13367	UCAUUGAA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	GACCUAAC	35652
9033	1997	UCAUGAA G CCACUGAC	13368	GUCAGUGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	UUCAUUGA	35653
9056	1974	GGACUUU G CAAGUCC	13369	GGACCUUG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AAAGUUC	35654
9061	1969	UUUGCAAG G UCCAUCG	13370	CGGAUGGA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CUUGCAAA	35655
9069	1961	GUCCAUC G UGCCAGU	13371	CACUGGCA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	GGAUGGAC	35656
9071	1959	CCAUCGU G CCAUGUA	13372	UACACUGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	ACGGAUGG	35657
9075	1955	CCGUGCCA G UGUACUG	13373	GCAGUACA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	UGGCACGG	35658
9077	1953	GUGCCAGU G UACUGCAA	13374	UUGCAGUA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	ACUGGCAC	35659
9082	1948	AGUGUACU G CAAUCCA	13375	UGGAUUG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AGUACACU	35660
9099	1931	ACACCACA G UGCCGUGA	13376	UCACGGCA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	UGUGGUGU	35661
9101	1929	ACCACAGU G CCGUACC	13377	GGUCACGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	ACUGUGGU	35662
9104	1926	ACAGUGCC G UGACUUGU	13378	ACAGGUCA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	GGCACUGU	35663
9111	1919	CGUGACCU G UGUUGCG	13379	CGCAGACA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AGGUACAG	35664
9113	1917	UGACCUUG G UCUUGCGG	13380	CCCGCAGA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	ACAGGUCA	35665
9117	1913	CUGUGUCU G CCGGAGUC	13381	GACUCCG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AGACACAG	35666
9123	1907	CUGCGGGA G UCCCAAGA	13382	UCUUUGGA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	UCCCGCAG	35667
9141	1889	ACUUGAAA G CCUUUGAA	13383	UUCAAAGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	UUUCAAGU	35668
9155	1875	GAACAGAC G CCAUAGGU	13384	ACCUAUGG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	GUUUGUUC	35669
9162	1868	GCACUAG G UUGUUCU	13385	GGGAACAA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	CUAUGGCG	35670
9165	1865	CAUAGGUU G UUCUUUC	13386	GAAGGGA GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AACCUAUG	35671
9178	1852	CUUCAU G CAAUUUU	13387	AAAAUUG GGAGGAAACUCCCUUAAGGACAUCGUCGCGG	AGUUGAAG	35672

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9219	1811	GACCGAC G UCAACUUG	13388	CAAGUUGA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG GUCGGGUC	35673
9221	1799	ACUUGACA G UUGUCUU	13389	AAGCAACA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UGUCAAGU	35674
9233	1797	UUGACAGU G UUGCUUGA	13390	UCAAGCAA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG ACUGUCA	35675
9236	1794	ACAGUGU G UUGAAAA	13391	UUUUCAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AACACUGU	35676
9258	1772	CAGGAUG G CUCCAGCC	13392	GGCUGGAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG CAUUCUG	35677
9264	1766	UGGCUCA G CCAAGCU	13393	AGCUUGG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UGGAGCCA	35678
9270	1760	CAGCCAA G CUUGAUGC	13394	GCAUCAAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UUUGGCU	35679
9277	1753	AGCUUGAU G CAGAGCUC	13395	GAGCUCUG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AUCAAGCU	35680
9282	1748	GAUGAGA G CUCCUCU	13396	AGAGGGAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UCUGCAUC	35681
9292	1738	UCCUCUU G UGAGCCA	13397	UGGCUCA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AAGAGGA	35682
9296	1734	UCUUGUGA G CCAAGUC	13398	GCAUUGG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UCACAAGA	35683
9303	1727	AGCCAAU G CUUACACA	13399	UGUAUAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AUUGGGCU	35684
9316	1714	CACAGU G CUUCGUG	13400	CCACGAAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AGUCUGU	35685
9321	1709	ACUGCUUC G UGGCGUGU	13401	ACACGCCA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG GAAGCAGU	35686
9324	1706	GCUUGUG G CGUGUGU	13402	ACCACAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG CACGAAGC	35687
9326	1704	UUCGUGC G UGUGUUC	13403	GAACACA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG GCCACGAA	35688
9328	1702	CGUGGCU G UGDUCCU	13404	AGGAACCA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG ACGCCACG	35689
9331	1699	GGCGUGU G UCCUCA	13405	UUGAGGAA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG CACACGCC	35690
9351	1679	CCAUAA G UCUCUCU	13406	CAGAGAGA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG GUUAAUGG	35691
9359	1671	GUCUCU G UUCUCCA	13407	UGGAGGAA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AGAGAGAC	35692
9372	1658	UCCACACA G UACUCCA	13408	UGGAAGUA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UGUGUGGA	35693
9381	1649	UACUCCA G CACUCUC	13409	GAGCAGUG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UGGAAGUA	35694
9386	1644	CCAGCACU G CUCCAAG	13410	CUUGGAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AGUGCUGG	35695
9398	1632	CAAGGAG G UUGAGUC	13411	GACCUCAA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG CUCCCUUG	35696
9404	1626	AGGUUGAG G UCCAUGAA	13412	UUCAUGGA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG CUCAACCU	35697
9435	1595	CCAAGAAC G UCUUGUU	13413	AACAAGA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG GUUCUUGG	35698
9441	1589	ACGUCUU G UUCAACA	13414	UGUUGGAA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AAAGACGU	35699
9450	1580	UCCAACA G UCAUCAC	13415	CGUGAUGA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UGUUGGAA	35700
9458	1572	GUCAUCAC G UAGUAUGC	13416	GCAUACUA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG GUGAUGAC	35701
9461	1569	AUCACGUA G UAUGCAU	13417	AAUGCAUA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UACGUGAU	35702
9465	1565	CGUAGUAU G CAUUGUG	13418	CACCAUUG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AUACUACG	35703
9471	1559	AUGCAUUG G UGUCAUUC	13419	GAUUGACA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG CAAUGCAU	35704
9473	1557	GCAUUGU G UCAAUCCC	13420	GGGAUUGA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG ACCAUGC	35705
9487	1543	CCUUGACC G UGGUUCAC	13421	GUGAACCA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG GGUCAGGG	35706
9490	1540	UGCUGUG G UUCACAGU	13422	ACUGUGAA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG CACGGUCA	35707
9497	1533	GGUUGACA G UCCACUGU	13423	AGAGUGGA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UGUGAAC	35708
9504	1526	AGUCCACU G UCACCUCU	13424	AGAGGUGA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG AGUGGACU	35709
9526	1504	UUCUCCA G CUUUGUG	13425	CACUAAAG GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UTUGAGAA	35710
9532	1498	AAGCUUUA G UGUGUAUG	13426	CAUACACA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG UAAAGCUU	35711
9534	1496	GCUUUGU G UGUUGAA	13427	UUCAUACA GGAGGAAAACUCCCUUCAAGGACAUCGUCGCGG ACUAAAGC	35712

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9536	1494	UUUAGUGU G UAUGAAGG	13428	CCUUCAUA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG ACACUAAA	35713
9544	1486	GUUAAG G CGCGCAG	13429	CUGCGCG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG CUUCAUAC	35714
9546	1484	AUGAAGG G CGCAGGA	13430	UCCUGCG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG GCCUUCAU	35715
9549	1481	AAGCGCC G CAGGAGUG	13431	CACUCCUG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG GCGCCUU	35716
9555	1475	CCGAGGA G UGAUGCUG	13432	CAGCAUCA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UCCUGCGG	35717
9560	1470	GGAGUGAU G CUGAAUCU	13433	AGAUUCAG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AUCACUCC	35718
9573	1457	AUCUCCU G CCUGAGUG	13434	CACUCAGG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AGGAGAU	35719
9579	1451	CUGCCUGA G UGGCUCCA	13435	UGGAGCCA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UCAGGCAG	35720
9582	1448	CCUGAGUG G CUCCAACC	13436	GGUUGGAG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG CACUCAGG	35721
9592	1438	UCCAACCU G UGUGGAGU	13437	ACUCCACA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AGGUUGGA	35722
9594	1436	CAACCUGU G UGGAGUAG	13438	CUACUCCA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG ACAGGUUG	35723
9599	1431	UGUGUGGA G UAGUUUCC	13439	GGAAACUA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UCCACACA	35724
9602	1428	GUGGAGUA G UUUCCUG	13440	CACGGAAA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UACUCCAC	35725
9608	1422	UAGUUCC G UGGGACUC	13441	GAGUGCA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG GGAACUA	35726
9610	1420	GUUCCGU G CGACUCCA	13442	UGGAGUCG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG ACGGAAAC	35727
9621	1409	ACUCCACA G UAGUUGGU	13443	ACCAACUA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UGUGGAGU	35728
9624	1406	CCACAGUA G UUGGUCCA	13444	UGGACCAA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UACUGUGG	35729
9628	1402	AGUAGUG G UCCAUGGA	13445	UCCAUGGA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG CAACUACU	35730
9645	1385	CAAAAUG G CCACUUCG	13446	CGAAGUGG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG CAUUUUUG	35731
9653	1377	GCCACUUC G UACUUGAU	13447	AUCAAGUA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG GAAUGGCG	35732
9678	1352	UCAAGAUG G UUCUUCU	13448	AGGAAGAA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG CAUCUUGA	35733
9690	1340	UUCCUAU G CUUGGUA	13449	UACCAAGG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AAUAGGAA	35734
9696	1334	UUGCCUUG G UAGAGCAG	13450	CUGUCUA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG CAAGGCAA	35735
9701	1329	UUGGUAGA G CAGGCCAA	13451	UUUGCCUG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UCUACCAA	35736
9705	1325	UAGAGCAG G CAAAUUG	13452	CAAAUUG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG CUGUCUA	35737
9714	1316	CAAAUUG G CGCAUGUG	13453	CACAUGCG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG CAAAUUUG	35738
9716	1314	AAUUUGG G CAUGUGUC	13454	GACACAUG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG GCCAAAUU	35739
9720	1310	UGGCGCAU G UGUCAAUG	13455	CAUUGACA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AUGCGCCA	35740
9722	1308	GGCAUGU G UCAAUGCU	13456	AGCAUUGA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG ACAUGCGC	35741
9728	1302	GUGUCAU G CUUCCUU	13457	AAAGGAAG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AUUGACAC	35742
9737	1293	CUUCCUU G CCAAUAA	13458	UUAUUUGG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AAAGGAAG	35743
9749	1281	AAUAAUC G CAGCCGUU	13459	AACGGCUG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG GGAUUAUU	35744
9752	1278	AAUCCGA G CCGUUGCC	13460	GGCAACGG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UGCGGAUU	35745
9755	1275	CGCAGCC G UUGCCCCA	13461	UGGGGCAA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG GGCUGCGG	35746
9758	1272	CAGCCGU G CCCCAGCC	13462	GGCUGGGG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AAGGGCUG	35747
9764	1266	UUGCCCA G CCCCUGC	13463	GACAGGGG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UGGGGCAA	35748
9770	1260	CAGCCCU G UCCACCAC	13464	GUGGUGGA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AGGGCUG	35749
9784	1246	CACUCCU G UCUGCACA	13465	UGUGCAGA GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AAGGAGUG	35750
9788	1242	CCUUGUC G CACACAA	13466	UUUGUGUG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG AGACAAGG	35751
9798	1232	ACACAAA G CUGGGUCA	13467	UGACCCAG GGAGGAAAUCUCCUUCAAGGACAUGGUCGGG UUUUGUGU	35752

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9803	1227	AAAGCUGG G UCAGCAG	13468	CGUGCUGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CCAGCUUU	35753
9807	1223	CUGGCUCA G CAGGUUG	13469	CAAAACGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGACCCAG	35754
9811	1219	GUCAGCAC G UUUGUCAU	13470	AUGACAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GUGCUGAC	35755
9815	1215	GCACGUUU G UCAUUGU	13471	CACAACUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAACGUGC	35756
9821	1209	UUGUCUAU G UGAGCUUC	13472	GAAGCUCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAUGACAA	35757
9825	1205	CAUUGUGA G CUUCUCC	13473	GGGAGAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCACA AUG	35758
9837	1193	CUCCCAUG G UCGGCAC	13474	GUGCCCCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAUGGGAG	35759
9842	1188	AUGGUCGG G CACGCAG	13475	GCUGCGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CCGACCAU	35760
9846	1184	UCGGCAC G CAGCUUUG	13476	CAAAACGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GUGCCCCA	35761
9849	1181	GGACGCA G CUUUGGUG	13477	CACCAAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGCUGGCC	35762
9855	1175	CAGCUUUG G UGGAGAGA	13478	UCUCUCCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAAAGCUG	35763
9866	1164	GAGAGAU G CUGACGGU	13479	ACCGUCAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GAUCUCUC	35764
9873	1157	CGCUGACG G UAGCCAAA	13480	UUUGGCUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CGUCAGCG	35765
9876	1154	UGACGGUA G CCAAUUAG	13481	CUAUUUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UACCCGUA	35766
9884	1146	GCCAAUA G CAAUAACU	13482	AGUUUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAUUUGGC	35767
9893	1137	CAUAACU G CGGACCU	13483	GAGGUCCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGUUAUUG	35768
9903	1127	GGACUUC G CCAGGUUG	13484	CAACUUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAGGUCC	35769
9908	1122	UCUGCCAG G UUGACCGC	13485	GCGGUCAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CUGGCAGA	35770
9915	1115	GGUUGACC G CCUCAUA	13486	UAUGGAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGUCAACC	35771
9945	1085	CAUCUAG G UAGGCUUG	13487	CAAGCCUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAUCGAUG	35772
9949	1081	GAUGUAG G CUUGUCCU	13488	AGGACAAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CUACCAUC	35773
9953	1077	GUAGGCUU G UCCUAGA	13489	UCUAAGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAGCCUAC	35774
9969	1061	ACAUGAUA G UCACGCAG	13490	CUGCGUGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAUCAUGU	35775
9974	1056	AUAGUCAC G CAGCUGUC	13491	GACAGCUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GUGACUAU	35776
9977	1053	GUCAGGCA G CUGUCGCC	13492	GGCGACAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGCUGGAC	35777
9980	1050	ACGCGCU G UCGCCUUC	13493	GAAGCGGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGCUGCGU	35778
9983	1047	CAGCUGUC G CCUUCGAG	13494	CUCGAAGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GACAGCUG	35779
10008	1022	CCACCCAU G UUGCUCCA	13495	UGGAGCAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUGGGUGG	35780
10011	1019	CCCAUGUU G CUCCAGAC	13496	GUCUGGAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AACAUUGG	35781
10034	996	UCCAAGAA G UCUCUGUU	13497	AACAGAGA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUCUUGGA	35782
10040	990	AAGUCUCU G UUGCUCAU	13498	AUGAGCAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAGACUU	35783
10043	987	UCUCUGUU G CUCAUUC	13499	GGAAUAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AACAGAGA	35784
10055	975	AUUCCAAG G CAGUUGAA	13500	UUCAACUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CUUGGAAU	35785
10058	972	CCAAGGCA G UUGAAGCU	13501	AGCUUCA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGCCUUGG	35786
10064	966	CAGUUGAA G CUGUAAGC	13502	GCUACAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUCAACUG	35787
10067	963	UUGAAGCU G UAAGCUGG	13503	CCAGCUUA GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGCUUCA	35788
10071	959	AGCUGUAA G CUGGGGCC	13504	GGCCCCAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUAACAGU	35789
10077	953	AAGCUGGG G CCACCAAA	13505	UUUGGUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CCCAGCUU	35790
10087	943	CACCAAAA G CAAUAGCA	13506	UGCUAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUUUGGUG	35791
10093	937	AAGCAUA G CACGACAA	13507	UUGUCGUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAUUGCUU	35792

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10114	916	AACUCUCU G CAUGGUGU	13508	ACACCAUG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AGAGAGUU	35793
10119	911	UCUGCAUG G UGUUGCUC	13509	GAGCAACA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG CAUGCAGA	35794
10121	909	UGAUGGU G UUGCUCC	13510	GGGAGCAA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AACAUCA	35795
10124	906	AUGGUGU G CUCCCAAG	13511	CUUGGAG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AACACCAU	35796
10132	898	GUCCCCAA G CAUCCAAC	13512	UUGGAGG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG UUGGGAGC	35797
10149	881	CAUAGAC G CUGCCACC	13513	GUUGGCAG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG CGUCAUUG	35798
10152	878	UGACGGCU G CCACCAGG	13514	CCUGGUGG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AGCCGUCA	35799
10161	869	CCACCAGG G CAUAUCCA	13515	UGGAUUG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG CCUGGUGG	35800
10172	858	UAUCCAGG G UUCUCAAA	13516	UUGAGGAA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG CCUGGAUA	35801
10194	836	AUGAUUCU G UUUUUACC	13517	GGUAAAA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AGAAUCAU	35802
10212	818	AUACCUU G UGGCCUUG	13518	CAAGGCCA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AAGGUUAU	35803
10215	815	ACCUUGG G CCUUGGUG	13519	CACCAAGG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG CACAAGGU	35804
10221	809	UGGCCUUG G UGCUGUCC	13520	GGACAGCA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG CAAGGCCA	35805
10223	807	GCCUUGGU G CUGUCCAU	13521	AUGGACAG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG ACCAAGGC	35806
10226	804	UUGGUGCU G UCCAUCCA	13522	UGGAUGGA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AGCACCAA	35807
10236	794	CCAUCCAA G CCCCCTUC	13523	GAAGGGGG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG UUGGAUGG	35808
10247	783	CCCUUCU G UUGGCUAG	13524	CUAGCGAA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AAGAAGGG	35809
10251	779	UCUUGUUC G CUAGAGUG	13525	CACUCUAG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG GAACAAGA	35810
10257	773	UCGCUAGA G UGCUUUCU	13526	AGAAAGCA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG UCUAGCGA	35811
10259	771	GCUAGAGU G CUUUCUCC	13527	GGAGAAAG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG ACUCUAGC	35812
10268	762	CUUUCUCC G UGUUCUG	13528	CAGACACA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG GGAGAAAG	35813
10270	760	UUCUCUCC G UGUUCGCA	13529	UGCAGACA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG ACGGAGAA	35814
10272	758	CUCGUGU G UUGGCACU	13530	AGUGCAGA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG ACACGGAG	35815
10276	754	GUGUGUCU G CACUGUCA	13531	UGACAGUG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AGACACAC	35816
10281	749	UCUGCACU G UCAGUGAC	13532	GUCACUGA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AGUGCAGA	35817
10285	745	CACUGUCA G UGACCUCC	13533	GGAGGUCA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG UGACAGUG	35818
10298	732	CUCCGACU G CGUCUUGA	13534	UGAAGACG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AGUCGGAG	35819
10300	730	CCGACUGC G UCUGAGU	13535	ACUCAAGA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG GCAGUCGG	35820
10307	723	CGUCUUGA G UGGCGUGU	13536	ACACGCCA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG UCAAGACG	35821
10310	720	CUUGAGUG G CGUGUCUU	13537	AAGACACG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG CACUCAAG	35822
10312	718	UGAGUGGC G UGUCUUGG	13538	CCAAGACA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG GCCACUCA	35823
10314	716	AGUGGGCU G UCUUGGUG	13539	CACCAAGA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG ACGCCACU	35824
10320	710	GUGUCUUG G UGCAUCUU	13540	AAGAUGCA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG CAAGACAC	35825
10322	708	GUCUUGGU G CAUCUUGC	13541	GGAAGAUG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG ACCAAGAC	35826
10340	690	UACCUAGC G UAGACUGC	13542	GCAGUCUA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG GUCAGGUA	35827
10347	683	CGUAGACU G CUGACUUU	13543	AAAGUCAG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AGUCUACG	35828
10356	674	CUGACUUU G UGCACCAA	13544	UUGGUGAG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AAAGUCAG	35829
10358	672	GACUUUG G CACCAACA	13545	UGUUGGUG GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG ACAAAGUC	35830
10367	663	CACCAACA G UCGAUGUC	13546	GCAUCUGA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG UGUUGGUG	35831
10373	657	CAGUCGAU G UCUUCUGG	13547	CCAGAAGA GGAGGAAACUCCCUUCAAGGACAUCGUCGCCGG AUCGACUG	35832

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10392	638	CAUACCA G CCGACAGC	13548	GCUGUCGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGGUAAUG	35833
10399	631	AGCCGACA G CACUGGGC	13549	GCCCAGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGUCGGCU	35834
10406	624	AGCAGUG G CAUUCUA	13550	UAUGAUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCAGUGCU	35835
10416	614	AUUCUA G UGAUGUA	13551	UACUAUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UUAUGAAU	35836
10422	608	AAGUA G UAUCUUG	13552	CGAUGUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UAUCACUU	35837
10430	600	GUUAUC G CACAUGUA	13553	UACAUGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GAUGAUAC	35838
10436	594	UCGCACAU G UAUCCAC	13554	GUGGAUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUGUGCGA	35839
10452	578	CAUCAAU G CUCUGACA	13555	UGUCAGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAUGGAUG	35840
10463	567	CUGACAAU G CAUAGGUU	13556	AACCUAUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUUGUCAG	35841
10469	561	AUGCAUAG G UUCUUCC	13557	GGAAGAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUUAU AU	35842
10479	551	UCUUCCA G CAGCUGUU	13558	AACAGCUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGGAUUA	35843
10482	548	UUCGAGCA G CUGUUGGA	13559	UCCAACAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGCUGGAA	35844
10485	545	CAGCAGCU G UUGGAAUC	13560	GAUCCAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGCUGCUG	35845
10494	536	UUGGAAU G UGAUGACA	13561	UGUCAUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG GAUUCCAA	35846
10506	524	UGACUAU G UGACGUCA	13562	UGACGUCA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGAUGUCA	35847
10511	519	UCUGAG G UCAGUAGC	13563	GUACUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG GUCACAGA	35848
10515	515	UGACGUCA G UAGCAUUU	13564	AAUUGCUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGACGUCA	35849
10518	512	CGUCAGUA G CAUUUACC	13565	GGUAAUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UACUGACG	35850
10527	503	CAUUUACC G UCAUCAUC	13566	GAUGAUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG GGUAAUUG	35851
10550	480	CCUUGAA G UUAGAGAG	13567	CUCUCUAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UUCCAAGG	35852
10560	470	UAGAGAG G UAACUGCU	13568	AGCAGUUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCUCUCUA	35853
10566	464	GGUUAUCU G CUCCUACG	13569	CGUAGGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGUUAACC	35854
10574	456	GUCCUAC G CUGGCGAU	13570	AUCGCCAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GUAGGAGC	35855
10578	452	CUAGCUG G CGAUCAGG	13571	CCUGAUCG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAGCGUAG	35856
10586	444	GCAGUAC G CCAUUCAU	13572	AUGAUUGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUGAUCGC	35857
10599	431	UCAUGACU G CAAUUCGG	13573	CGGAUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGUCAUGA	35858
10608	422	CAAUUCG G UCUUUCU	13574	AGGAAAGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CGGAAUUG	35859
10630	400	UUUCUUU G UUUGAGC	13575	GCUCAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAAAGAAA	35860
10637	393	UGUUUGA G CUCCGCG	13576	CGGCGGAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UCAAAACA	35861
10642	388	UGAGCUCC G CCGAUUGA	13577	UCAUUCGG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GGAGCUCA	35862
10653	377	GAUGUA G CACUGGUC	13578	GACCAGUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG UAUCAAUC	35863
10659	371	UAGCACUG G UCAAGGUC	13579	GACCUUGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAGUGCUA	35864
10665	365	UGGUAAG G UCCUAGU	13580	ACUAGGGA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUUGACCA	35865
10672	358	GGUCCUA G UCCUUCU	13581	AGAAGGAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG UAGGGACC	35866
10694	336	CUACAGA G UGUUUCAU	13582	AUGAAACA GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUUCUGAG	35867
10696	334	CAGAAGU G UUUCAUCG	13583	CGAUGAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG ACCUUCUG	35868
10704	326	GUUUAUC G CUGUUUGU	13584	ACAAACAG GGAGGAAACUCCUUAAGGACAUCGUCGCGG GAUGAAAC	35869
10707	323	UCAUCGU G UUUGUUUG	13585	CAACAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGCGAUGA	35870
10711	319	CGCUGUU G UUUGUACA	13586	UGAACAAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAACAGCG	35871
10715	315	GUUUGUU G UUCACACC	13587	GGUGUGAA GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAACAAAC	35872

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10738	292	UCGAUCCA G CACUGCUC	13588	GAGCAGUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UGGAUCGA	35873
10743	287	CAGCACU G CUCGGGUC	13589	GACCCGAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AGUGCUGG	35874
10749	281	CUGCUCGG G UCGGAGCA	13590	UGCUCCGA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	CCGAGCAG	35875
10755	275	GGGUCGGA G CAAUUGCU	13591	AGCAAUUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UCCGACCC	35876
10761	269	GAGCAUU G CUGUGAAC	13592	GUUCAUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AAUUGCUC	35877
10764	266	CAUUGCU G UGAACCUG	13593	CAGGUUCA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AGCAAUUG	35878
10779	251	UGAAGAAC G CCAAGAGA	13594	UCUCUUGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GUUCUUCA	35879
10788	242	CCAAGAGA G CCAACACA	13595	UGUGUUGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UCUCUUGG	35880
10801	229	CACAAUUC G UAUUGGCC	13596	GGCCAAUA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GAUUUGUG	35881
10807	223	UGUAUUG G CCCUUGC	13597	GCAAGGGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	CAAUACGA	35882
10814	216	GGCCCCUU G CCGUGAU	13598	AUCGACGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AAGGGGCC	35883
10817	213	CCCUUGCC G UCGAUCAG	13599	CUGAUCGA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GGCAAGGG	35884
10826	204	UGGAUCAG G CUCAACAU	13600	AUGUUGAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	CUGAUCGA	35885
10836	194	UCAACAUA G CCUCUUC	13601	GAAGAGGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UAUGUUGA	35886
10846	184	CCUCUUA G UCCAAUCA	13602	UGAUUGGA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UGAAGAGG	35887
10865	165	GACAACAC G CGGGCAU	13603	AUGCCCGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GUGUUUGUC	35888
10870	160	CACGCGGG G CAUUCGCG	13604	CGGGAUUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	CCCGCGUG	35889
10877	153	GGCAUUCG G CGUUUUG	13605	CUAAAAACG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GGAAUGCC	35890
10879	151	CAUUCGCG G UUUUAGCA	13606	UGCUAAAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GCGGAAUG	35891
10885	145	GGUUUUA G CAUAUUGA	13607	UCAUAUUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UAAAAACG	35892
10896	134	UAUUGACA G CCCGGCUC	13608	GAGCCGGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UGUCAUAU	35893
10901	129	ACAGCCCG G CUCUUGCC	13609	GGCAAGAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	CGGGCUGU	35894
10907	123	CGGCUCUU G CCGGGCCC	13610	GGGCCCGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AAGAGCCG	35895
10912	118	CUUGCCGG G CCUCUCUG	13611	CAGGAGGG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	CCGGCAAG	35896
10921	109	CCUCCUG G UUCUUAAG	13612	CUAAGAAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	CAGGAGGG	35897
10944	86	AGAUUCU G UGCUAAGA	13613	UCUUAACA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GAAGAUCU	35898
10946	84	AUCUUCU G CUAAGAAA	13614	UUUCUUAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	ACGAAGAU	35899
10957	73	AAGAAACA G CUCGCACU	13615	AGUGCGAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UGUUUCUU	35900
10961	69	AACAGCUC G CACUGUGU	13616	ACACAGUG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GAGCUGUU	35901
10966	64	CUCGCACU G UGUUAAU	13617	AAUUAACA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AGUGCGAG	35902
10968	62	CGCACUGU G UUAUUUGU	13618	ACAAUUA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	ACAGUGCG	35903
10975	55	UGUUAUU G UUGUUAU	13619	AUUAACAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AAUUAACA	35904
10978	52	UAUUUUU G UUAUCCU	13620	AGGAUUA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AACAAUUA	35905
11002	28	ACUACUAA G UUUGUCAG	13621	CUGACAAA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UUAGUAGU	35906
11006	24	CUAAGUUU G UCAGCUCA	13622	UGAGCUGA	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AAACUUAG	35907
11010	20	GUUUGUCA G CUCACACA	13623	UGUGUGAG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	UGACAAAC	35908
11020	10	CCACACAG G CGAACUAC	13624	GUAGUUCG	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	CUGUGUGA	35909
37	10993	CCAATUGC G GCGCACTUG	14175	CAGUGCGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	GACAAUGG	35910
54	10976	UGCCGUGU G GCGGGUUG	14176	CACACAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	ACACGGCA	35911
58	10972	GUGUGGCU G GUUGUGCA	14177	UGACAAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG	AGCCACAC	35912

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67	10963	GUUGUGCA G AGCAGAAG	14178	CUUCUUGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGCACAAAC	35913
72	10958	GCAGAGCA G AAGAUCUC	14179	GAGAUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGCUCUGC	35914
75	10955	GAGCAGAA G AUCUCCUA	14180	UAGGAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UUCUGCUC	35915
94	10936	CUAUCCCA G GUGUCAU	14181	AUUGACAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGGGAUAG	35916
118	10912	UUUGUUGU G GUGUUUG	14182	CAAAACAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACAAACAA	35917
128	10902	UGUUUUGU G GCACGGGG	14183	CCCCGUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACAAAACA	35918
133	10897	UGUGGCAC G GGGUCUCC	14184	GGAGACCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GUGCCACA	35919
134	10896	GUGGCACG G GGUCCCA	14185	UGGAGACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CGUGCCAC	35920
135	10895	UGGCACGG G GUCUCCAC	14186	GUGGAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCGUGCCA	35921
164	10866	CUUCCCU G ACCUACAG	14187	CUGUAGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGGGGAAG	35922
182	10848	UUCAGUCA G GCUGGGCC	14188	GGCCACAG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGACUGAA	35923
186	10844	GUCAGGCU G GGGCGUGC	14189	GCACGGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGCCUGAC	35924
187	10843	UCAGGUG G GCGUGCA	14190	UGCACGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGCCUGA	35925
207	10823	UAAACCG G GGGUCUCC	14191	GGAGACCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GCGGUUUA	35926
208	10822	AAACCGG G GGUUCUCC	14192	AGGAGACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CGCGGUUU	35927
209	10821	AACCGGG G GUCUCCUC	14193	GAGGAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCGCGGUU	35928
240	10790	UUCGCGCU G GUUACAC	14194	GUGUUAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGGGCGAA	35929
256	10774	CCAUUACC G GGGCUAGG	14195	CTUAGCCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GGUUAUUG	35930
257	10773	CAUUAAC G GGCUAGGG	14196	CCCUAGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CGGUAAUG	35931
258	10772	AUUAACGG G GCUAGGGC	14197	GCCCUAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCGCUAAU	35932
263	10767	CGGGGCUA G GGCCGCGU	14198	ACGCGGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UAGCCCCC	35933
264	10766	GGGGCUAG G GCGCGUG	14199	CACGCGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CUAGCCCC	35934
272	10758	GGCGCGU G GGGCGUUG	14200	CAACGCCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACGCGGCC	35935
273	10757	GCCGCGUG G GGCUGUGG	14201	CCAACGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CACGCGGC	35936
274	10756	CCGCGUGG G GCGUUGGU	14202	ACCAACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCACGCGG	35937
280	10750	GGGCGUU G GUUUGCCU	14203	AGGCAAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AACGCCCC	35938
308	10722	GUCCUCCU G GGGACUA	14204	UAGUGCCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGGAGGAC	35939
309	10721	UCCUCCUG G GGCACUUA	14205	AUAGUGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAGGAGGA	35940
310	10720	CCUCCUGG G GCACUAUC	14206	GAUAGUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCAGGAGG	35941
322	10708	CUAUGGCA G ACUGCACU	14207	AGUGCAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGCGAUAG	35942
338	10692	UCUCCGCA G AGUAGCAC	14208	GUGCUACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	UGCGGAGA	35943
357	10673	CGUAGCGU G GUCUGACA	14209	UGUCAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACGCUACG	35944
362	10668	CGUGGUCU G ACAUUGGG	14210	CCCAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AGACCACG	35945
368	10662	CUGACAUU G GGCUUUGA	14211	UCAAGGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAUGUCAG	35946
369	10661	UGACAUUG G GCUUUGAA	14212	UUCAAAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CAAUGUCA	35947
375	10655	UGGCUUUU G AAGUUACA	14213	UGUUAACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	AAAGCCCC	35948
390	10640	CAACAUGU G GGUUCCUC	14214	GAGGACCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	ACAUGUUG	35949
391	10639	ACAUGUG G GGUUCCUC	14215	GGAGGACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CACAUGUU	35950
392	10638	ACAUGUGG G GUCCUCCU	14216	AGGAGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	CCACAUGU	35951
404	10626	CUCUUCU G AGACGGUU	14217	AACCGUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	GGAAGGAG	35952

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406	10624	CCUCCGA G	ACGGUUCU	14218	AGAACCGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	UCGGAAGG	35953
409	10621	UCGAGAC G	GUUCUGAG	14219	CUCAGAAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	GUUCGGGA	35954
415	10615	ACGGUUCU G	AGGGCUUA	14220	UAAGCCCU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AGAACCUG	35955
417	10613	GGUUCUG G	GGCUUACA	14221	UGUAAGCC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	UCAGAACC	35956
418	10612	GUUCUGAG G	GCUUACAU	14222	AUGUAAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	UCAGAACC	35957
427	10603	GUUACAU G	GAUCACUU	14223	AAGUAAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AUGUAAGC	35958
428	10602	CUUACAU G	AUCACUUC	14224	GAAGUGAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CAUGUAAG	35959
439	10591	CACUUCG G	GCUUUGUU	14225	AACAAAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	GCGAAGUG	35960
462	10568	GUCCUCCU G	GGUUGAG	14226	CUCAACCC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AGGAGGAC	35961
463	10567	UCCUCCUG G	GGUUGAGU	14227	ACUCAACC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CAGGAGGA	35962
464	10566	CCUCCUGG G	GUUGAGUC	14228	GACUCAAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CCAGGAGG	35963
468	10562	CUGGGGU G	AGUCGCAG	14229	CUGCGACU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AACCCACG	35964
476	10554	GAGUCGA G	GCAGCACC	14230	GGUGUUGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	UGCACUC	35965
500	10530	CAACUUC G	GUGGCGGG	14231	CCCGCCAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	GGAAAGUU	35966
503	10527	CUUCCGU G	GCGGGAAC	14232	GUUCCCGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	ACCGGAAG	35967
506	10524	CCGGUGG G	GGAACTUC	14233	GAAGUUC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	GCACACCG	35968
507	10523	CGGUGGG G	GAACUUC	14234	GGAAGUCC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CGCCACCG	35969
508	10522	GGUGGGG G	AACUUC	14235	GGGAAGUU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CCGCCACC	35970
517	10513	AACUUC G	GCUGACU	14236	AGUCAGGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	GGGAAGUU	35971
522	10508	CCGGCCU G	ACUUCUC	14237	GAGAAGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AGGCCGGG	35972
622	10408	UUACAAU G	AUUAUA	14238	UAUUAAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AUUGUUA	35973
681	10349	UCUUAGU G	AAUCUAUG	14239	CAUGAGUU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	ACUAAAGA	35974
713	10317	UCAUCUC G	AUGAUUGC	14240	GCAAUCAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	GGAGAUGA	35975
716	10314	UCUCCGU G	AUUGUCU	14241	AGAGCAAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AUCGGAGA	35976
725	10305	AUUGUCU G	ACUUGGUU	14242	AACCAAGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AGAGCAAU	35977
730	10300	UCUGACU G	GUUGAUAG	14243	CUAUCAC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AGUCAGA	35978
734	10296	ACUUGGU G	AUAGCCAC	14244	GUGGCUAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AACCAAGU	35979
745	10285	AGCCACU G	GAUGUUU	14245	AAAACAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AGGUGGCU	35980
746	10284	GCCACUG G	AUGUUUUC	14246	GAAAACAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CAGGUGGC	35981
764	10266	GCCACGU G	GCUCGGG	14247	GCCCAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	ACGUGGGC	35982
769	10261	CGUGGUC G	GGUCUUG	14248	CAAGAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	GAGCCACG	35983
770	10260	GUGGUCG G	GCUCUUG	14249	ACAAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CGAGCCAC	35984
787	10243	GCCAUCA G	GCUGCCAC	14250	GUGGCAGC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	UGAUUGGC	35985
800	10230	CCACACA G	AUGUCCUC	14251	GAGGACAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	UGGUGUGG	35986
819	10211	GUUUUCU G	AAUAUGG	14252	CCCAUAU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AGGAAAAC	35987
825	10205	UGAAUAU G	GGACGUCA	14253	UGACGUCC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AUAUUCAG	35988
826	10204	UGAAUUG G	GAGUCAC	14254	GUGAGUUC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CAUAUUA	35989
827	10203	GAUAUGG G	ACGUCACU	14255	AGUGACGU	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CCAUAUUC	35990
849	10181	UCUCCACU G	GGUUUUG	14256	CAAAACCC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	AGUGGAGA	35991
850	10180	CUCCACUG G	GGUUUUGU	14257	ACAAACC	GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG	CAGUGGAG	35992

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851	10179	UCCACUGG G GUUUGUC	14258	GACAAAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CCAGUGGA	35993
892	10138	CCAAACAC G GUUCAGA	14259	UCUGGAAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GUGUUUGG	35994
899	10131	CGGUUCCA G ACCUCAA	14260	UUGGAGGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG UGGAACCG	35995
943	10087	UCCUGCAU G GAUGACC	14261	GGUCCAUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AUGCAGGA	35996
944	10086	CCUGCAUG G AUGGACCA	14262	UGGUCCAU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAUGCAGG	35997
947	10083	GCAUGAU G GACCACGU	14263	ACGUGGUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AUCCAUGC	35998
948	10082	CAUGGAUG G ACCACGUG	14264	CACGUGGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAUCCAUG	35999
956	10074	GACCACGU G GUTCUUCC	14265	GGAAGAAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG ACGUGGUC	36000
965	10065	GUUCUCC G GUAGGAC	14266	GUCCUAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GGAAGAAC	36001
969	10061	UCCGGUA G GGACCAA	14267	UUGGGUCC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UACCGGAA	36002
970	10060	UCCGGUAG G GACCAAU	14268	AUUGGGUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CUACCGGA	36003
971	10059	CCGGUAGG G ACCCAAU	14269	AAUUGGUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CCUACCGG	36004
984	10046	AAUACACA G GGACAGCG	14270	CGCUGUCC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UGUGAAUU	36005
985	10045	AUUCACAG G GACAGCGG	14271	CCGUGUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CUGUGAAU	36006
986	10044	UUCACAGG G ACAGCGGA	14272	UCCGUGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CCUGUGAA	36007
992	10038	GGGACAGC G GAGCAAU	14273	AUUUGCUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GCUGUCCC	36008
993	10037	GGACAGCG G AGCAAUU	14274	CAUUUGCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CGCUGUCC	36009
1001	10029	GAGCAAAU G GCGUUGGC	14275	GCACAACG GGAGAAACUCCCUCAAGGACAUCGUCGCGG AUUUGCUC	36010
1007	10023	AUGGCGU G GCCAUGAG	14276	CUCAUGGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AACGGCAU	36011
1013	10017	UUGGCAU G AGCCGCG	14277	CUGCGGCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AUGGCCAA	36012
1021	10009	GAGCGCA G GUCUCUUC	14278	GAAAGAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG UGCGGCUU	36013
1033	9997	UCUUCUGU G GAAGUACA	14279	UGUACUUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG ACAGAAGA	36014
1034	9996	CUUCUGUG G AAGUACAG	14280	CUGUACU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CACAGAAG	36015
1042	9988	GAAGUACA G AAGCAGCC	14281	GGCUGCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG UGUACUUC	36016
1057	9973	CCACAUU G GGCAUAAG	14282	CUUAUGCC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AGAUGUGG	36017
1058	9972	CACAUUG G GCAUAAGA	14283	UCUUAUGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAGAUGUG	36018
1065	9965	GGGCAUAA G ACUUGCC	14284	GGCUAAGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG UUAUGCCC	36019
1075	9955	CUUAGCCA G ACAAGCAG	14285	CUGCUUGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG UGGCUAAG	36020
1090	9940	AGUGUCG G GACGUUCC	14286	GGAACGUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GCGACACU	36021
1091	9939	GUGUGCG G ACGUOCCA	14287	UGGAACGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CGCGACAC	36022
1103	9927	UUCCAUC G GCCCUGG	14288	CCAGGGGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GGAUGGAA	36023
1110	9920	CGGCCCUU G GAGUAUG	14289	CAUAUUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AGGGGCCG	36024
1111	9919	GGCCCTUG G AGUAUGC	14290	GCAUAUCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAGGGGCC	36025
1113	9917	CCCCUGGA G AUAUGCGA	14291	UCGCAUUA GGAGAAACUCCCUCAAGGACAUCGUCGCGG UCCAGGGG	36026
1120	9910	AGAUAGC G AGCUCUGC	14292	GCAGAGCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG GCAUAUCU	36027
1150	9880	CUGUCCUC G GCAUGGAA	14293	UUCCAUGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG GAGGACAG	36028
1155	9875	CUCGGCAU G GAACCACC	14294	GGUGGUUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG AUGCCGAG	36029
1156	9874	UCGGCAUG G AACACCA	14295	UGGUGGUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG CAUGCCGA	36030
1184	9846	UCUUCAU G AUCAAUUC	14296	GAAUUGAU GGAGAAACUCCCUCAAGGACAUCGUCGCGG AUGAAAGA	36031
1196	9834	AAUUCAGU G AAUUGGUU	14297	AACCAUUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG ACUGAAUU	36032

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1201	9829	AGUGAAU G GUUGAGC	14298	GCUCAAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUUUCACU	36033
1206	9824	AAUGGUU G AGCAAAU	14299	AUUUUGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAACCAU	36034
1215	9815	AGCAAAU G GAACUUC	14300	GCAGGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AUUUUGCU	36035
1216	9814	GCAAAU G AACUUCU	14301	AGCAGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAUUUUGC	36036
1245	9785	AUCCAGU G ACGGUUC	14302	GAAACCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AACUUGAU	36037
1248	9782	CAGUUG G GUUCCAC	14303	GUAGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GUCAACUG	36038
1261	9769	CCACUCU G AUGUCUU	14304	AAGACAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAGAGUGG	36039
1262	9768	CACUCUG G AUGUCUU	14305	AAAGACAU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAAGAGUG	36040
1273	9757	GUUUUG G AACUUUG	14306	CAAGGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCAAAGAC	36041
1281	9749	GAACUUU G ACAUAGCA	14307	UGCUAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAAGGUUC	36042
1292	9738	AUAGCAU G AGGAAGUG	14308	CACUUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAUGCUAU	36043
1294	9736	AGCAUUA G GAAGUGGA	14309	UCCACUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UCAAUGCU	36044
1295	9735	GCAUUGA G AAGUGGAG	14310	CUCCACUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUCAAUGC	36045
1300	9730	GAGGAAGU G GAGCGAGG	14311	CCUCGCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACUUCUCU	36046
1301	9729	AGGAAGU G AGCGAGGU	14312	ACCUCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CACUUCU	36047
1305	9725	AGUGAGC G AGGUGGCA	14313	UUCCACU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCUCUACU	36048
1307	9723	UGGAGCA G GUUGCAA	14314	UGGACCA GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UCGUCCUA	36049
1310	9720	AGCGAGU G GCAAAGCG	14315	CGCUUUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACCUCGU	36050
1318	9712	GGCAAAGC G AUGGUCCA	14316	UGGACGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCUUUGCC	36051
1327	9703	AUCGUCCA G GGGCUUA	14317	UAAAGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGGACGAU	36052
1328	9702	UCGUCCAG G GGUUUAC	14318	GUAAAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUGGACGA	36053
1329	9701	CGUCCAG G GCUUUACC	14319	GGUAAAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CCUGGACG	36054
1355	9675	UCUCCAU G ACAGCCAU	14320	AUGGCUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGUGGAGA	36055
1366	9664	AGCCAUGC G GCUAGUUC	14321	GACUCAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GCAUGGU	36056
1370	9660	AUGCGGU G AGUCUUUC	14322	GAAAGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGCCGCAU	36057
1400	9630	AACAGCCA G GUCCUGAC	14323	GUCAGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGGCUGUU	36058
1406	9624	CAGGUCCU G ACUUUGG	14324	CCCAAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGGACCUG	36059
1412	9618	CUGACUU G GUUCCUU	14325	AAAGGACC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AAAGUCAG	36060
1413	9617	UGACUUUG G GUCCUUUC	14326	GAAAGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAAAGUCA	36061
1430	9600	CUUUUGU G AGUUUCUC	14327	GAGAAACU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACAAAAGG	36062
1449	9581	CAUCAUCU G GGCCAAUC	14328	GAUUGGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGAUGAUG	36063
1450	9580	AUCAUCU G GCCAAUCA	14329	UGAUUGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAGAUGAU	36064
1489	9541	CACCAGU G GACGGCCA	14330	UGGCCUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AGCUGGUG	36065
1490	9540	ACCAGUG G ACGGCCAG	14331	CUUGCCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CAGCUGGU	36066
1493	9537	AGCUGGAC G GCCAGGUU	14332	AACUUGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG GUCCAGCU	36067
1498	9532	GACGGCCA G GUUGGUGA	14333	UCACCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UGGCCGUC	36068
1502	9528	GCCAGGUU G GUGAAAGU	14334	ACUUUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG AACUUGGC	36069
1505	9525	AGGUUGU G AAAGUGUU	14335	AACACUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG ACCAACCU	36070
1516	9514	AGUGUUUA G GCGUAGG	14336	CCUACGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG UAAACACU	36071
1517	9513	GUGUUAG G GCGUAGGU	14337	ACCUACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCCGGG CUAACAC	36072

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1523	9507	AGGGCGUA G GUGACAAC	14338	GUUGUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UACGCCCU	36073
1526	9504	GCUGAGGU G ACAACUUG	14339	CAAGUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCUACGC	36074
1549	9481	CCCCUCU G AUUCUUC	14340	GAGAAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAGGGGG	36075
1559	9471	UCUUCUCU G GAGAUAA	14341	GUUAUCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAGAAGA	36076
1560	9470	CUUCUCUG G AGAUAACA	14342	UGUUAUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAGAGAAG	36077
1562	9468	UCUCUGGA G AUAACAUC	14343	GAUGUUAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCCAGAGA	36078
1574	9456	ACAUCCAU G ACGGUUCU	14344	AGAAACCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUGGAUGU	36079
1577	9453	UCCAUGAC G GUUCUUC	14345	GGAGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GUCAUGGA	36080
1586	9434	CAGAGCC G GCGCAUC	14346	GAUGGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGCUGCUG	36081
1597	9433	AGCAGCG G GCGCAUCA	14347	UGAUGCGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CGGCUGCU	36082
1621	9409	AACUUGU G ACGAUAAG	14348	CCUAUCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACAAAGUU	36083
1624	9406	UUUGUAC G AUAGGUGA	14349	UCACCUAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GUCACAAA	36084
1628	9402	UGACGUA G GUGAGCUC	14350	GAGCUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAU'CGUCA	36085
1631	9399	CGAUAGGU G AGCUCAAU	14351	AUUGAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCUAUCG	36086
1640	9390	AGCUNAU G AUGGCCCU	14352	AGGCCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUUGAGCU	36087
1643	9387	UCAUAGAU G GCCUGGC	14353	GCCAGGCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AUCAUUGA	36088
1649	9381	AUGGCCU G GCAAGAG	14354	CGUCUUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGGGCCAU	36089
1654	9376	CCUGGCA G ACGCCGAU	14355	AUCGGCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UUGCCAGG	36090
1660	9370	AAGAGCC G AUGUUC	14356	GGGAACAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGCUCUU	36091
1718	9312	GCUCUGU G AUGGGGU	14357	ACCCGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGGAGAGC	36092
1723	9307	CGUGAUGC G GGUGUCC	14358	GGGACACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCAUCACG	36093
1724	9306	GUGAUGCG G GUGUCCA	14359	UGSGACAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CGCAUCAC	36094
1754	9276	UCAGCAUA G AUCUUGCC	14360	GGCAAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UAU'CGUGA	36095
1767	9263	UGCCCCA G GCCGGGUG	14361	CACCCGCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGGGGGCA	36096
1771	9259	CCCAGGCC G GGUGCCAA	14362	UUGGCACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GGCCUGGG	36097
1772	9258	CCAGGCCG G GUGCCAC	14363	GUUGGCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CGGCCUGG	36098
1789	9241	UUCACGCA G GAUGUAAC	14364	GUUACAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGCUGGAA	36099
1790	9240	UCACGCAG G AUGUAACC	14365	GGUUAACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CUGCGUGA	36100
1807	9223	CAGUUUUU G GAGGCCCA	14366	UGGGCCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAAAAACU	36101
1808	9222	AGUUUUUG G AGGCCCAA	14367	UUGGGCCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG CAAAAACU	36102
1810	9220	UUUUUGGA G GCCCAAGC	14368	GCUUUGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCCAAAAA	36103
1823	9207	AAGCCUC G ACACUCC	14369	GGAGGUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GAGGGCUU	36104
1836	9194	CUCUCCU G AGUUCUUU	14370	AAAGAACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AGGAGGAG	36105
1858	9172	AAGCCAGU G GUCUUAU	14371	AUGAAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG ACUGGCUU	36106
1868	9162	UCUUAUU G AGAAACC	14372	GGUUUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG AAUGAAGA	36107
1870	9160	UUCAUUGA G AAAACCCA	14373	UGUUUUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UCAAUGAA	36108
1879	9151	AAAACCCA G AGCCUGA	14374	UCGAGGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGGGUUUU	36109
1886	9144	AGAGCCUC G AACUCGAG	14375	CUGGAGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GAGGCUCU	36110
1894	9136	GAACUCCA G AAAGCGAG	14376	CUCGCUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG UGGAGUUC	36111
1900	9130	CAGAAAGC G AGCUCGGA	14377	UCGGAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG GCUUUCUG	36112

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1907	9123	CGAGCUC	G	AGCCACAU	14378	AUGUGGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGAGCUCG	36113
1916	9114	AGCCACAU	G	AACCAAAU	14379	AUUUGGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUGUGGU	36114
1925	9105	AACCAAAU	G	GCUCUGU	14380	AGCAGAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUUUGGU	36115
1940	9090	CUCCUCC	G	GCUCUCC	14381	GGAAAGG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAGGGAAG	36116
1949	9081	GUUUUCC	G	AACUCUC	14382	GGAGAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGAAAGG	36117
1958	9072	AACUCUC	G	GUUUUUU	14383	AAAAAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGAGAGU	36118
1959	9071	ACUCUCG	G	GUUUUUC	14384	AAAAAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CGGAGAGU	36119
2002	9028	GCAAGUG	G	ACAUUCC	14385	GGGAAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACAUUCC	36120
2017	9013	CCCCGCA	G	AUGUGGU	14386	AGGCACU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGCGGGG	36121
2058	8972	AAAAUUU	G	GAUCUUA	14387	UGAAGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAAAUUU	36122
2059	8971	AAAAUUU	G	AUCUCAA	14388	UUGAAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CAAAUUU	36123
2078	8952	GCUCUCU	G	GCUCUCU	14389	AGGAGGC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGAGAAGC	36124
2092	8938	CCUCCAU	G	AUUCUGU	14390	AGCAGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUUGGAGG	36125
2111	8919	UCAACAU	G	GCACCAA	14391	UUGGGUG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUGUUUGA	36126
2135	8895	UUGUGUU	G	ACUUUUC	14392	AGAAAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AACAGCAA	36127
2147	8883	UUUUUUU	G	AUUUCCU	14393	GAGGAUU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUAAGAA	36128
2158	8872	UUUCUCU	G	AGACACA	14394	UGUGUCU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GAGAGAA	36129
2160	8870	CCUCUGA	G	AGCACAU	14395	AAUGUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UCGAGAGG	36130
2171	8859	CACAUUC	G	GGAGUUU	14396	AAACGUU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGAAUGU	36131
2172	8858	ACAUUCU	G	GACGUUU	14397	AAAACGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CAGAAUGU	36132
2173	8857	CAUUCUG	G	ACGUUUU	14398	AAAACGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CCAGAAUG	36133
2186	8844	UUUUUCU	G	GCCAAAA	14399	UUUUUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGAGAAA	36134
2210	8820	AACAGUU	G	GUGGUCU	14400	GAGACCAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AACUGGU	36135
2213	8817	CAGUUGU	G	GUCUCAU	14401	AAUGAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACCAACUG	36136
2222	8808	GUCUCAU	G	AGCAGUA	14402	UACGUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAUGAGAC	36137
2244	8786	GUCCUUC	G	GCAGUUA	14403	UGAACCG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AGAAGGAG	36138
2247	8783	CUUCUGC	G	GUUCAGG	14404	UCCUGAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GCCAGAG	36139
2253	8777	GCGGUUA	G	GAGCUUC	14405	GAAAGCUC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UGAACCGC	36140
2254	8776	CGGUUCG	G	AGCUUUC	14406	CGAAAGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CUGAACCG	36141
2279	8751	UUCUCUU	G	AACACUC	14407	CGAGUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AAAGAGAA	36142
2297	8733	UGUGCCC	G	AAGGAGU	14408	ACUCCUU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	GGGACGCA	36143
2300	8730	UGCCGAA	G	GGAGUAG	14409	ACUACUC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	UUCGGGCA	36144
2301	8729	GCCGGA	G	GAGUAGU	14410	CACUACU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CUUCGGGC	36145
2302	8728	CCGGAAG	G	AGUAGUG	14411	ACACUACU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	CCUUCGGG	36146
2318	8712	UACGUCU	G	GCAUGGU	14412	ACCAUGG	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUGACUGA	36147
2324	8706	AUGGCCU	G	GUGGUAAC	14413	GUUACCC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUGGCCAU	36148
2327	8703	GCAUGGU	G	GUACAUU	14414	AAUUGUAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACCAUGGC	36149
2339	8691	ACAUUCU	G	AUGGUGU	14415	GACACCAU	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	ACGAAGU	36150
2342	8688	UUCUGAU	G	GUGUCCA	14416	UGGGACAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUCACGAA	36151
2352	8678	UGUCCAU	G	GUUUUGAG	14417	CUCAAAAC	GGAGGAAACUCCCUCAAGGACAUCGUCGGG	AUGGACAA	36152

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2358	8672	AUGGUUU	G	AGAGGAGC	14418	GCUCCUCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAAACCAU	36153
2360	8670	GGUUUGA	G	AGGAGCCU	14419	AGGCUCCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UCAAACCC	36154
2362	8668	UUUUGAG	G	GAGCCUGA	14420	UCAGGCUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UCUCAAAA	36155
2363	8667	UUUGAGG	G	AGCCUGAC	14421	GUCAGGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUCUCAAA	36156
2369	8661	AGGAGCCU	G	ACCACUCC	14422	GGAGUGGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGCUCCU	36157
2381	8649	ACUCCAU	G	ACCAGCGA	14423	UCGCTUGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAUGGAGU	36158
2388	8642	UGACCAGC	G	AACUGGCG	14424	CGCCAGUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCUGGUCA	36159
2393	8637	AGCGAAU	G	GCGGAGCC	14425	GGCUCGCG	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGUUCGCU	36160
2396	8634	GAACUGGC	G	GAGCCTGU	14426	ACAGGCUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GCCAGUUC	36161
2397	8633	AACUGGCG	G	AGCUGUG	14427	CACAGGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CGCCAGUU	36162
2405	8625	GAGCCUGU	G	GGCUUCAC	14428	GUGAAGCC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACAGGCUUC	36163
2406	8624	AGCCTUGU	G	GCUUCACA	14429	UGUGAAGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CACAGGCU	36164
2428	8602	ACUGCCGU	G	AUAGUUC	14430	GGAACUAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACGGCAGU	36165
2438	8592	UAGUCCA	G	GUUCUAUA	14431	UAUAGAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGGAACUA	36166
2448	8582	UUCUAUAU	G	GGUGGUUC	14432	GAACCCAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AUAUAGAA	36167
2449	8581	UCUAUAUG	G	GUGGUUCU	14433	AGAACCCAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAUAUAGA	36168
2452	8578	AUAUGGU	G	GUUCUAU	14434	AUGAGAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACCCUAU	36169
2464	8566	CUCAUCGU	G	GUGCCACG	14435	CGUGGCAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACGAUGAG	36170
2475	8555	GCCACGUC	G	AACUGUAC	14436	GUACAGUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GACGUGGC	36171
2492	8538	UCACGCCU	G	AGUCGUUC	14437	GAACGACU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGCGUGA	36172
2513	8517	CUGUUAU	G	AUUUUACU	14438	AGUAACAU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGAAACAG	36173
2522	8508	AUUUUACU	G	GUGUCUGA	14439	UCAGACAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGUAAAAU	36174
2529	8501	UGGUGUCU	G	AGUUGAGC	14440	GCUCAACU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGACACCA	36175
2534	8496	UCUGAGUU	G	AGCAGGGG	14441	CCCCUGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AACUCAGA	36176
2539	8491	GUUGAGCA	G	GGGUUUUC	14442	GAATAACC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGCUCAC	36177
2540	8490	UUGAGCAG	G	GGUUUUCC	14443	GGATAACC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUGCUCAA	36178
2541	8489	UGAGCAGG	G	GUUUUCCC	14444	GGGATAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCUGCUCA	36179
2558	8472	ACGCCCCU	G	GUUCCACU	14445	AGUGGAAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGGCGGU	36180
2593	8437	CUCGUUUU	G	GGGUCCCU	14446	AGGGACCC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AAUACGAG	36181
2594	8436	UCGUUUUG	G	GGUCCCUU	14447	AAGGGACC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CAAUACGA	36182
2595	8435	CGUAUUGG	G	GUCCCUUC	14448	GAAGGGAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CCAUAACG	36183
2606	8424	CCCUUCCA	G	GUCCUUUU	14449	AAAAGGAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UGGAAGGG	36184
2629	8401	UCUUCCUA	G	GAGCACC	14450	AGGUGUCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	UAGGAAGA	36185
2630	8400	CUUCUUG	G	AGCACCUG	14451	CAGGUGCU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	CUAGGAAG	36186
2638	8392	GAGCACC	G	GCUGGUCA	14452	UGACCAGC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGUGGUC	36187
2642	8388	ACUUGGCU	G	GUCAUAUU	14453	AAUAUGAC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGCCAGGU	36188
2655	8375	UAUUCACU	G	AUUGUACC	14454	GGUACAUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGUGAAUA	36189
2673	8357	CAUUGCCU	G	AAGCUUGA	14455	UCGAGCUU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	AGGCAUUG	36190
2680	8350	UGAAGCUC	G	ACUCACCC	14456	GGGUGAGU	GGAGGAAACUCCUUAAGGACAUCGUCGGG	GAGCUUCA	36191
2705	8325	UCGUGCGU	G	GAUUCCG	14457	CGGAUUC	GGAGGAAACUCCUUAAGGACAUCGUCGGG	ACGCACGA	36192

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2706	8324	CGUGGUG G AAUUCGU	14458	ACGGAUU GGAGGAAACUCCUUAAGGACAUCGUCCGG CACGCACG	36193
2715	8315	AAUUCGU G AGAGUGG	14459	CCACUCU GGAGGAAACUCCUUAAGGACAUCGUCCGG ACAGAAUU	36194
2717	8313	UUCGUGA G AGUGGUG	14460	AACCCACU GGAGGAAACUCCUUAAGGACAUCGUCCGG UCACGGAA	36195
2721	8309	GUGAGAGU G GUUUCUG	14461	CAGAAAC GGAGGAAACUCCUUAAGGACAUCGUCCGG ACUCUCAC	36196
2722	8308	UGAGAGUG G GUUUCUGA	14462	UCAGAAAC GGAGGAAACUCCUUAAGGACAUCGUCCGG CACUCUCA	36197
2729	8301	GGUUCU G ACCAGUC	14463	GGACUGU GGAGGAAACUCCUUAAGGACAUCGUCCGG AGAAACCC	36198
2749	8281	CCCAUAC G GGUUGGA	14464	UCCAACG GGAGGAAACUCCUUAAGGACAUCGUCCGG GUAUGGG	36199
2755	8275	CGGCGU G GAGCAGU	14465	AGCUGUC GGAGGAAACUCCUUAAGGACAUCGUCCGG AACGCCG	36200
2756	8274	CGGCGU G AGCAGUC	14466	GAGCUGU GGAGGAAACUCCUUAAGGACAUCGUCCGG CAACGCC	36201
2777	8253	UUCUCU G ACUUCGG	14467	CCGAAAGU GGAGGAAACUCCUUAAGGACAUCGUCCGG AUAGAGAA	36202
2784	8246	UGACUUC G GCAUGAG	14468	CUACAUC GGAGGAAACUCCUUAAGGACAUCGUCCGG GAAAGUCA	36203
2792	8238	GGCAUGA G GGCAGAG	14469	CUCUGCC GGAGGAAACUCCUUAAGGACAUCGUCCGG UACAUGCC	36204
2793	8237	GCAUGAG G GCAGAGC	14470	GCUCUGC GGAGGAAACUCCUUAAGGACAUCGUCCGG CUACAUGC	36205
2794	8236	CAUGAGG G GCAGAGCA	14471	UGCUCGC GGAGGAAACUCCUUAAGGACAUCGUCCGG CCUACAUG	36206
2798	8232	UAGGGGA G AGCACCUC	14472	AAGGUGU GGAGGAAACUCCUUAAGGACAUCGUCCGG UGCCCUA	36207
2823	8207	AUUCUUC G GCCUCGG	14473	CCGAGGC GGAGGAAACUCCUUAAGGACAUCGUCCGG AAGGAAU	36208
2830	8200	UGGCCUC G GUGCAGC	14474	GGCUGAC GGAGGAAACUCCUUAAGGACAUCGUCCGG GAGGGCCA	36209
2857	8173	CAUUCAA G GACCCGA	14475	UUCGGUC GGAGGAAACUCCUUAAGGACAUCGUCCGG UUGAAAU	36210
2858	8172	AUUCUAG G ACCGAAU	14476	AUUCGGU GGAGGAAACUCCUUAAGGACAUCGUCCGG CUUGAAU	36211
2863	8167	AAGGACC G AUUCGUC	14477	GGACGAU GGAGGAAACUCCUUAAGGACAUCGUCCGG GGGUCCU	36212
2895	8135	CAGCAU G ACAGGAC	14478	GUCCUCU GGAGGAAACUCCUUAAGGACAUCGUCCGG AAGUCUG	36213
2898	8132	CACUAG G AGGACUC	14479	AGAUUCU GGAGGAAACUCCUUAAGGACAUCGUCCGG GUCAAGUG	36214
2900	8130	CUUGACA G GACUCUC	14480	GGAGAGU GGAGGAAACUCCUUAAGGACAUCGUCCGG UCGUCAAG	36215
2901	8129	UUGACGA G ACUCUCG	14481	CGGAGAU GGAGGAAACUCCUUAAGGACAUCGUCCGG CUCGUCAA	36216
2909	8121	GACUCUC G AUGUCAC	14482	UGUGACU GGAGGAAACUCCUUAAGGACAUCGUCCGG GGAGAGUC	36217
2920	8110	GUACAAA G GAGGGUG	14483	ACACCCU GGAGGAAACUCCUUAAGGACAUCGUCCGG UUGUGAC	36218
2921	8109	UCACAA G AGGGUGC	14484	GACACCU GGAGGAAACUCCUUAAGGACAUCGUCCGG CUUUGUGA	36219
2923	8107	ACAAAG G GUGUCAC	14485	GUGACAC GGAGGAAACUCCUUAAGGACAUCGUCCGG UCCUUUGU	36220
2924	8106	CAAAGG G GUGUCAC	14486	UGUGACU GGAGGAAACUCCUUAAGGACAUCGUCCGG CUCCUUUG	36221
2940	8090	AACACUA G AAGGUCG	14487	CAGACCU GGAGGAAACUCCUUAAGGACAUCGUCCGG UGAGUGUU	36222
2943	8087	ACUCAG G GUCUGUG	14488	CUACAGC GGAGGAAACUCCUUAAGGACAUCGUCCGG UUCUGAGU	36223
2951	8079	GGUCUGA G AACACUC	14489	GAUGUUU GGAGGAAACUCCUUAAGGACAUCGUCCGG UACAGACC	36224
2975	8055	CUCUCA G GUGACAA	14490	AUUGCAC GGAGGAAACUCCUUAAGGACAUCGUCCGG AUGAAGAG	36225
2978	8052	UUAUGGU G ACAAUGU	14491	AACAUGU GGAGGAAACUCCUUAAGGACAUCGUCCGG ACCAUGAA	36226
3010	8020	CACUAGU G GGGUCUU	14492	AAGAGCC GGAGGAAACUCCUUAAGGACAUCGUCCGG AACUAGUG	36227
3011	8019	ACUAGUG G GGCUCUC	14493	GAAGAGC GGAGGAAACUCCUUAAGGACAUCGUCCGG CAACUAGU	36228
3012	8018	CUAGUUG G GUCUCUA	14494	UGAAGAGC GGAGGAAACUCCUUAAGGACAUCGUCCGG CCAACUAG	36229
3026	8004	UCAUGUC G GACCGCC	14495	GGCGUCC GGAGGAAACUCCUUAAGGACAUCGUCCGG GGACAUGA	36230
3027	8003	CAUGUCG G GACCGCC	14496	GGCGGUC GGAGGAAACUCCUUAAGGACAUCGUCCGG CGGACAUG	36231
3028	8002	AUGUCGG G ACCGCCU	14497	AGGGCGU GGAGGAAACUCCUUAAGGACAUCGUCCGG CCGGACAU	36232

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3050	7980	UACCCUCU G ACUCUCUUG	14498	CAAGAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AGAGGGUA	36233
3058	7972	GACUCUCU G GACUCUCU	14499	AAAAGAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AAGAAGUC	36234
3059	7971	ACUCUCU G ACUCUCU	14500	AAAAGAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG CAAGAAGU	36235
3070	7960	UCUUUUU G GGUUGCCA	14501	UGGCAACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AAAAAAGA	36236
3071	7959	CUUUUUU G GUUGCGAU	14502	AUGGCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG CAAAAAAG	36237
3112	7918	ACAUCAA G GUCAAUCA	14503	UGAUAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG UUGGAUGU	36238
3128	7902	ACUUUUC G ACCGGUUC	14504	GAAACGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GGAAGAGU	36239
3132	7898	UUCGGACC G GUUCGAGA	14505	UCUCCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GGUCGGAA	36240
3137	7893	ACGGUUC G AGAAACCU	14506	AGGUUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GAAACGGU	36241
3139	7891	CGGUUCGA G AAACCUCC	14507	GGAGUUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG UCGAACCG	36242
3152	7878	CUCGGUUC G ACCAGCCA	14508	UGGCUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GAAACGGAG	36243
3183	7847	UGCCCUUA G AGACUGGA	14509	UCCAGUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG UAGGGGCA	36244
3185	7845	CCCCUAGA G ACUGGAUG	14510	CAUCCAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG UCUAGGGG	36245
3189	7841	UAGAGACU G AUGCCCU	14511	AGGCAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AGUCUCUA	36246
3190	7840	AGAGACUG G AUGCCCU	14512	GAGGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG CAGUCUCU	36247
3203	7827	CCUCCAGU G ACAUUGCC	14513	GGCAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG ACUGGAGG	36248
3221	7809	UCUUUCU G GCGUGUU	14514	AAACACGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AGGAAAGA	36249
3237	7793	UUGCCGCU G AGCGAUCG	14515	CGAUCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AGCGGCAA	36250
3241	7789	CGUGAGC G AUGGACUU	14516	AAUUCGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GCUCAGCG	36251
3245	7785	GAGCGAUC G ACUUCGAU	14517	AUCCAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GAUCGCU	36252
3251	7779	UCGACUUC G AUGAUGGC	14518	GCACAUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GAAUGCGA	36253
3254	7776	ACUUCGAU G AUGGCCUC	14519	GAGGCCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AUCCAGAU	36254
3257	7773	UCGAUGAU G GCCUCUU	14520	AAAGAGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AUCAUCGA	36255
3268	7762	CUCUUUGC G GUACCUAG	14521	CUAGGUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GCAAAGAG	36256
3278	7752	UACCUAGU G AACUCUUC	14522	GAAAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG ACUAGGUA	36257
3298	7732	UGUCAUUC G GUGAGUUC	14523	GACUCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AGAUGACA	36258
3302	7728	AUCUGGUU G AGUCUUUC	14524	GAAAGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AACAGAU	36259
3329	7701	UCUCCCAA G GUGCGUCC	14525	GGACGCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG UUGGGAGA	36260
3363	7667	UAGUCCU G GUUUUUCC	14526	GGAAAAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AGGACUAA	36261
3393	7647	UUCUUUUAU G AGUGUCCA	14527	UGGACACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AUAAAGAA	36262
3398	7632	CAUGUUUAU G GAUAGACA	14528	UGUCUAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AUAAACAU	36263
3399	7631	AUGUUUAUG G AUAGACAU	14529	AUGUCUAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG CAUAACAU	36264
3403	7627	UAUGGAUA G ACAUGACA	14530	UGUCAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG UAUCCAUA	36265
3408	7622	AUAGACAU G ACAACCAA	14531	UUGGUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AUGUCUAU	36266
3428	7602	CCAGCAU G AUGUGGCA	14532	UGCCACAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AUGCGUGG	36267
3433	7597	CAUGGAU G GCAGAGUC	14533	GACUCUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG ACAUCAU	36268
3437	7593	AUGUGGCA G AGUCCGAU	14534	AUCGGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG UGCCACAU	36269
3443	7587	CAGAGUCC G AUGGCAGU	14535	ACUGCCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG GGACUCUG	36270
3446	7584	AGUCCGAU G GCAGUUGU	14536	ACAAUCUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG AUCGGACU	36271
3468	7562	UCCAAACA G AGCUUGCU	14537	AGCAAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCCGG UGUUUGGA	36272

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3503	7527	ACGCGUC G GCGUGAU	14538	AUCACGGC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	GCAGCGGU	36273
3509	7521	GCGCCGU G AUCAAAU	14539	AUUUGAU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	ACGCCCGC	36274
3521	7509	AAAUUCC G GCUUCUG	14540	CGAGAAGC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	GGAAUUUU	36275
3543	7487	UUUACAC G ACGGUUC	14541	GAACCCGU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UGUGAAGA	36276
3546	7484	UCACAGC G GGUUCACU	14542	UAGUAACC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	GUUCUGUA	36277
3547	7483	CACAGAG G GUUCACUA	14543	UAGUGAAC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CGUCUGUG	36278
3568	7462	UGCAGCUA G AGACACCA	14544	UGGUGUCU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UAGCUGCA	36279
3570	7460	CAGCUAGA G ACACCAAG	14545	CUUGGUGU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UCUAGCUG	36280
3578	7452	GACACCAA G AUCAGCAU	14546	AUGCUGAU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UUGGUGUC	36281
3587	7443	AUCAGCAU G AUCUGUCC	14547	GGACAGAU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	AUGCUGAU	36282
3611	7419	UUCUGCAU G AUGGGUGU	14548	ACACCCAU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	AUGCAGAA	36283
3614	7416	UGCAUGAU G GUUGUGGU	14549	ACCACACC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	AUCAUGCA	36284
3615	7415	GCAUGAUG G GUGUGGUG	14550	CACCACAC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CAUCAUGC	36285
3620	7410	AUGGGUGU G GUGCGCUC	14551	GGCGCAC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	ACACCCAU	36286
3636	7394	CUAAUUCU G GGACGUCC	14552	GGAGUCC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	AGAAUUAG	36287
3637	7393	UAUUUCU G GACGUCCG	14553	CGGACGUC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CAGAAUUA	36288
3638	7392	AAUUCUGG G ACGUCCGU	14554	ACGGACGU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CCAGAAUU	36289
3647	7383	ACGUCCGU G GGCACGAU	14555	AUCGUGGC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	ACGGACGU	36290
3653	7377	GUGGCCAC G AUGCCAU	14556	GAUGGCAU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	GUGGCCAC	36291
3680	7350	UUCUUAU G AUUCCGGC	14557	GCCGGAU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	AUGAAGAA	36292
3686	7344	AUGAUUCC G GCGGUGU	14558	ACAGCGGC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	GGAAUCAU	36293
3703	7327	CGCCGCU G GCGUGAGC	14559	GCUCAGCC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	AGCGGCGG	36294
3704	7326	CGCCGCU G GCGUGAGC	14560	CGCUCAGC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CAGCGGCG	36295
3708	7322	CGUGGCU G AGCGCAU	14561	AAUGCGCU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	AGCCGAGC	36296
3734	7296	UGCCAAAC G GGAACCAU	14562	AUGGUUCC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	GGUUGGCA	36297
3735	7295	GCCAAAC G GAACCAUG	14563	CAUGGUUC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CGGUUGGC	36298
3736	7294	CCAACCG G AACCAUGU	14564	ACAUGGUU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CCGGUUGG	36299
3746	7284	ACCAUGUA G GCAUAGUG	14565	CACUAUGC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UACAUGGU	36300
3754	7276	GGCAUAGU G GCAAAAAA	14566	UUUUUUGC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	ACUAUGCC	36301
3763	7267	GCAAAAAA G GAGUGUUG	14567	CAACACUC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UUUUUUGC	36302
3764	7266	CAAAAAAG G AGUGUUGC	14568	GCAACACU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UUUUUUUG	36303
3788	7242	ACCGUAC G GUGAGGUG	14569	ACCCUAC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	GUUACGGU	36304
3791	7239	GUAAACGU G AGGGUGAC	14570	GUCACCTU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	ACCGUUC	36305
3793	7237	AACGGUGA G GGUGACUU	14571	AAGUCACC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UCACCGUU	36306
3794	7236	ACGGUGAG G GUGACUUG	14572	CAAGUCAC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CUCACCGU	36307
3797	7233	GUGAGGUG G ACUGUCC	14573	GGACAAGU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	ACCCUCAC	36308
3815	7215	CAGCAUCC G GCUGCUAG	14574	CUAGCAGC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	GGAUGCUG	36309
3826	7204	UGCUAGCA G GAGAGCGG	14575	CGGCUUC	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UGCUAGCA	36310
3827	7203	GUAGCAG G AGAGCCGA	14576	UCGGUCU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	CUGCUAGC	36311
3829	7201	UAGCAGGA G AGCCGACA	14577	UGUCGCU	GGAGGAAACUCCCUUUAAGGACAUUGUCCGGG	UCCUGCUA	36312

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3834	7196	GGAGAGCC G ACACUCCA	14578	UGGAGUGU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG GGCUCUCC	36313
3848	7182	CCAACAU C ACAGAGGG	14579	CCCUUCGU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG GAUUGUGG	36314
3851	7179	ACUAGAC G AAGGGAA	14580	UUCCCCUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG GUCGAUGU	36315
3854	7176	UCGACGA G GGAAGCC	14581	GGCUUCCC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UUCGUCCA	36316
3855	7175	CGACGAAG G GGAAGCCU	14582	AGGUUCC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG CUUCGUCC	36317
3856	7174	GACGAAG G GAAGCCUC	14583	GAGGCUUC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG CCUUCGUC	36318
3857	7173	ACGAAGG G AAGCCUCG	14584	CGAGGCUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG CCCUUCGU	36319
3869	7161	CCUCGCG G AGUGGAA	14585	UUCACACU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG GCGCGAGG	36320
3875	7155	GCGAGUGU G AAUAGUGC	14586	GCACUAUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG ACACUCGC	36321
3892	7138	ACUUGCCU G AACGUUUA	14587	UAAACGUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AGGCAAGU	36322
3903	7127	CGUUUAUU G AGGUCAAU	14588	AUUGACCU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AAUAAACG	36323
3905	7125	UUUAUGA G GUCAUGA	14589	UCAUUGAC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UCAAUAAA	36324
3912	7118	AGGUCAAU G AGGUGUUG	14590	CAACACCU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AUUGACCU	36325
3914	7116	GUCAAUGA G GUGUUGAU	14591	AUCAACAC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UCAUUGAC	36326
3920	7110	GAGGUGUU G AUGUAAUC	14592	GAUUACAU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AACACCUC	36327
3930	7100	UGUAUUCU G ACGUGAUC	14593	GAUCACGU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AGAUUACA	36328
3935	7095	UCUGAGGU G AUCAAUG	14594	CAUUUGAU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG ACGUCAGA	36329
3954	7076	UUAGCAGU G GAGUGAGG	14595	CCUCACUC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG ACUGCUAA	36330
3955	7075	UAGCAGUG G AGUGAGGA	14596	UCCUCACU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG CACUGCUA	36331
3959	7071	AGUGAGGU G AGGACCGC	14597	GCGGUCCU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG ACUCCACU	36332
3961	7069	UGGAGUGA G GACCGCUG	14598	CAGCGGUC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UCACUCCA	36333
3962	7068	GGAGUGAG G ACGGUGU	14599	ACAGCGGU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG CUCACUCC	36334
3987	7043	CGUACAGU G ACCAGGCU	14600	AGCCUGGU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG ACUGUACG	36335
3992	7038	AGUGACCA G GCUUGUCC	14601	GCAACAGC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UGGUCACU	36336
4002	7028	CUGUUGCC G GCCUCAAG	14602	CUUGAGGC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG GGCAACAG	36337
4018	7012	GUCCAAAA G AAACUCUC	14603	GAGAGUUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UUUUGGAC	36338
4034	6996	CCCAUGCU G AAUUCUC	14604	GAGAAUUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AGCAUGGG	36339
4046	6984	UUCUCCUU G ACUCAAU	14605	AUUGAGGU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AAGGAGAA	36340
4088	6942	UCACUCUU G GUCUUAUC	14606	GAUAAGAC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AAGAGUGA	36341
4115	6915	AUCUCGUU G GCUGCCAC	14607	GUGGCAGC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AACGAGAU	36342
4135	6895	GCUCACAA G GGUCAUGA	14608	UCAUGACC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UTUGUGAGC	36343
4136	6894	CUCAACAG G GUCAUGAC	14609	GUCAUGAC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG CUUGUGAG	36344
4142	6888	AGGCUCAU G ACACAAU	14610	AUUUGUUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AUGACCCU	36345
4153	6877	ACAAUUA G GAACACGG	14611	CCGUGUUC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UGAUUUGU	36346
4154	6876	CAAUAUCAG G AACACGGC	14612	GCCUGUUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG CUGAUUUG	36347
4160	6870	AGGAACAC G GCUAGCUG	14613	CAGCUAGC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG GUGUUDUU	36348
4168	6862	GGCUAGCU G GUUGUCUG	14614	CAGACAAC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AGCUAGCC	36349
4182	6848	CUGUCUGC G AACGUUGC	14615	GCAACGUU GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG GCAGACAG	36350
4197	6833	GCUUCUCU G GCUACAGG	14616	UCCUGAGC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG AGAGAAGC	36351
4203	6827	CUGGCUCA G GAUUAGC	14617	GCUAUUC GGAGGAAAACUCCCUCAAGGACAUUCGUCCGGG UGAGCCAG	36352

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4204	6826	UGGUCAG G AAUAGCA	14618	UGCUAUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	CUGAGCCA	36353
4223	6807	AUCAUAA G AGAAGGA	14619	UCCCUUCU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UUGAUGAU	36354
4225	6805	CAUCAAG G AAGGGAG	14620	UCUCCUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UCUUGAUG	36355
4228	6802	CAAGAGG G GGAGAGCA	14621	UGCUCUCC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UUUCUCUUG	36356
4229	6801	AAGAGAG G GAGAGCAG	14622	CUGCUCUC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	CUUCUCUU	36357
4230	6800	AGAGAAG G AGAGCAGC	14623	CGUCUCUC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	CCUUCUCU	36358
4232	6798	AGAAGGA G AGCAGCAA	14624	UUGCUGCU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UCCCUUCU	36359
4247	6783	AACAUUC G GCGAUCUU	14625	AAGAUCGC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	GGAAUGUU	36360
4250	6780	AUUCGGC G AUCUUCGU	14626	ACGAAGAU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	GCCGGAUU	36361
4263	6767	UGUUCU G GAACUUA	14627	UGAAGUUC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AGGAACGA	36362
4264	6766	CGUUCUG G AACUUCAG	14628	CUGAAGUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	CAGGAACG	36363
4283	6747	AUCCAACA G AAAAGGU	14629	ACUUUUUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UGUUGGAU	36364
4289	6741	CAGAAAA G GUCGCGAC	14630	GUCGCGAC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UUUUUCUG	36365
4295	6735	AAGGUCC G ACUCCCAA	14631	UUGGGAGU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	GCGACCUU	36366
4304	6726	ACUCCAA G ACAGCGCC	14632	GGCGGUGU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UUGGGAGU	36367
4349	6681	CGUGCAU G AGGAGGAA	14633	UUUCUCCU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AUGCAGCG	36368
4351	6679	CUGCAUG G GAGGAAGA	14634	UUCUCCUC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UCAUGCAG	36369
4352	6678	UGCAUGA G AGGAAGAA	14635	UUCUUCUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	CUCAUGCA	36370
4354	6676	CAUGAGA G GAAGAAUA	14636	UAUUCUUC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UCCUCAUG	36371
4355	6675	AUGAGAG G AAGAAUAC	14637	GUUUCUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	CUCCUCAU	36372
4358	6672	AGGAGAA G AAUACUCC	14638	GGAGUAUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UUCUCCUU	36373
4370	6660	ACUCCAU G GUCAUCAC	14639	GUGAUGAC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AUGGGAGU	36374
4388	6642	CUCAAUA G GCAAUCAA	14640	UUGAUUGC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UUUAUUGAG	36375
4397	6633	GCAUCAA G GCAUUGU	14641	ACAAUUGC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UUGAUUGC	36376
4408	6622	AAUUGUU G AAGAGCAU	14642	AUGCUCUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AGACAAUU	36377
4411	6619	UGUCUGA G AGCAUCUG	14643	CAGAUGCU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UUCAGACA	36378
4419	6611	GAGCAUCU G GCAUUCU	14644	GGAAUCUG GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AGAUGCUC	36379
4432	6598	UUCUCCA G GGCCAUUC	14645	GAAUGGCC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UGGAGGAA	36380
4433	6597	UCCUCCAG G GCCAUUCU	14646	AGAAUUGC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	CUGGAGGA	36381
4444	6586	CAUUCUGU G AGCUCUUC	14647	GAAGAGCU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	ACAGAAUG	36382
4469	6561	UCUGCAGU G GCCACAAC	14648	GUUGUGGC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	ACUGCAGA	36383
4484	6546	ACGUACAU G GUGUCAAG	14649	CUUGACAC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AUGUACGU	36384
4514	6516	UUCUCCAU G AAGUGCUC	14650	GAGCACUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AUGGGGAA	36385
4524	6506	AGUGCUCA G GCAUUCUU	14651	AAAGAUGC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UGAGCACU	36386
4537	6493	CUUCCCA G AACCUCAA	14652	UUGAGGUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UGGGAAAG	36387
4547	6483	ACCUCAU G AGCCCUAU	14653	AUAGGGCU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AUTGAGGU	36388
4558	6472	CCCUACU G AGAACGUU	14654	AACGUUCU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	AGAUAGGG	36389
4560	6470	CUAUCUGA G AAGGUUUU	14655	AAAACGUU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UCAGAUAG	36390
4572	6458	GUUUCCC G AGGCGRAG	14656	CUUCGCCU GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	GGGAAAAC	36391
4574	6456	UUUCCGA G GCGAAGUC	14657	GACUUCGC GGAGGAAACUCCUUCUCAAAGGACAUCGUCCGGG	UCGGGAAA	36392

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4577	6453	CCCGAGGC	G	AAGUCCUU	14658	AAGGACUU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCCUCGGG	36393
4586	6444	AAGUCCUU	G	AACGCCUU	14659	AAGGCGUU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AAGGACUU	36394
4603	6427	UAGUGCCU	G	GUAGUCCG	14660	CGGAUAC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGGCACUA	36395
4606	6424	UGCCUGGU	G	AUCCGAGU	14661	ACUCGGAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	ACCAGGCA	36396
4611	6419	GGUGAUCC	G	AGUACACC	14662	GGUGUACU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GGAUACCC	36397
4622	6408	UACACCCU	G	GCGUCAAU	14663	AUUGACGC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGGGUGUA	36398
4638	6392	UCCAGGCG	G	GCCUCAGA	14664	UCUGAGGC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCGCUGGA	36399
4645	6385	CGGCCUCA	G	AAUCUCC	14665	GGAAGAUU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UGAGGCCG	36400
4670	6360	AGUUGGU	G	AUGAUUUC	14666	GAAGUCAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	ACGAAGCU	36401
4673	6357	UUCGUGAU	G	ACUUCAC	14667	GUGGAAGU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AUCACGAA	36402
4716	6314	UUGUCCUA	G	GACCAUCA	14668	UGAUGGUC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UAGGACAA	36403
4717	6313	UGUCCUAG	G	ACCAUCAA	14669	UUGAUGGU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CUAGGACA	36404
4738	6292	CCACCUC	G	GUCGUGGU	14670	ACCACGAC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GGAGGUGG	36405
4744	6286	CGGUGGU	G	GUAGACA	14671	UGUCAUAC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	ACGACCAG	36406
4749	6281	CGUGGUU	G	ACAUCCA	14672	UGGAGUGU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AUACCCAG	36407
4788	6242	GCCAAACU	G	GCAGAUU	14673	AGAUCUGC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGUUUGGC	36408
4792	6238	AACUGGCA	G	AUCUGCAG	14674	CUGCAGAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UGCCAGUU	36409
4816	6214	CAGUUCCA	G	AAAGUUUU	14675	AAAACUUU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UGGAACUG	36410
4841	6189	UCUCCUCU	G	AGCCGGUA	14676	UACCGGCU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGAGGAGA	36411
4846	6184	UCUGAGCC	G	GUATUCCC	14677	GGGAUAC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GGCUCAGA	36412
4862	6168	CCAUCCAU	G	GUATUAUC	14678	GUATUAUC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AUGGAUUG	36413
4884	6146	CACGUCUC	G	GUUGGUAG	14679	CUACCAAC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGAGCGUG	36414
4888	6142	CUCUGGUU	G	GUAGAAUU	14680	AAUUCUAC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AACCAGAG	36415
4892	6138	GUUGGUUA	G	AAUUGAGC	14681	GCUCAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	UACCAACC	36416
4897	6133	GUAGAAUU	G	AGCGAUCA	14682	UGAUCGCU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AAUUCUAC	36417
4901	6129	AAUUGAGC	G	AUCAGUCC	14683	GGACUGAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCUCAAUU	36418
4914	6116	GUCCGUUU	G	GCAUGUUG	14684	CAACAUGC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AAACGGAC	36419
4922	6108	GGCAUGUU	G	AUGUUGUC	14685	GACAACAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AACAUGCC	36420
4937	6093	UCCAGCAU	G	AUUCGUGC	14686	GCACGAAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AUGCUGGA	36421
4957	6073	AGUCCAAU	G	GGCGRAGU	14687	ACUUCGCC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AUUGGACU	36422
4958	6072	GUCCAAUG	G	GCGAAGUU	14688	AACUUCGC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CAUUGGAC	36423
4961	6069	CAAUGGGC	G	AAGUUCGA	14689	UCGAACUU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCCCAUUG	36424
4968	6062	CGRAGUUC	G	AGUCGUCU	14690	AGACGACU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GAACUUCG	36425
5019	6011	CAACUUGC	G	ACGGAUUU	14691	AAAUCCGU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCAAGUUG	36426
5022	6008	UUUGGCAC	G	GAUUUCUA	14692	UAGAAUUC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GUCGCAAG	36427
5023	6007	UUUGGCAC	G	AUUUCUAC	14693	GUAGAAAU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CGUCCGAA	36428
5033	5997	UUUCUACC	G	AUACGUCC	14694	GGACGUUU	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GGUAGAAA	36429
5050	5980	ACGUCUCU	G	GGCGGCAC	14695	GUGCCGCC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	AGAGACGU	36430
5051	5979	CGUCUCUG	G	GCGGCACU	14696	AGUGCCGC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	CAGAGACG	36431
5054	5976	CUCUGGGC	G	GCACUAGC	14697	GCUAUGUC	GGAGGAAAACUCCUUCAAGGACAUCGUCGCGG	GCCCAGAG	36432

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5076	5954	UCACUGCA G AUGGUUCU	14698	AGAACCAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG UGCAGUGA	36433
5079	5951	CUGCAGAU G GUUCUCCC	14699	GGGAGAAC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AUCUGCAG	36434
5089	5941	UUCUCCCA G GAUCACUC	14700	GAGUGAUC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG UGGGAGAA	36435
5090	5940	UCUCCAG G AUCACUCU	14701	AGAGUGAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CUGGGAGA	36436
5117	5913	UCUGUAU G AUGGUUGG	14702	CAAACCAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AUAACAGA	36437
5120	5910	GUUAUGAU G GUGGUUUU	14703	AAACCAAC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AUCAUAAC	36438
5124	5906	UGAUGGUU G GUUUCACA	14704	UGUGAAAC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AACCAUCA	36439
5140	5890	ACUCUCC G GCUGUCAA	14705	UUGACAGC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG GGAAGAGU	36440
5165	5865	CUCGCCU G AAGUUAGC	14706	GCUAACUU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AAGCGGAG	36441
5184	5846	CCAUUUCA G AUAUGUCU	14707	AGACAUAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG UGAAAUUGG	36442
5198	5832	UCUGUUGU G AUAACAAA	14708	UUUGUUAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG ACAACAGA	36443
5232	5798	UACAUAUU G GGUACUCC	14709	GGAGUACC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AAAAUGUA	36444
5233	5797	ACAUUUUG G GUACUCCG	14710	CGGAGUAC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CAAAUAUGU	36445
5250	5780	UCUGGUAC G ACUUUCUG	14711	CAGAAAGU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG GUACGAGA	36446
5266	5764	GUCAAAU G GACUACUU	14712	AAGUAGUC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AAUUGAAC	36447
5267	5763	UUCNAUUG G ACUACUUU	14713	AAAGUAGU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CAAUUGAA	36448
5293	5737	ACGUUGUA G GCAAGGG	14714	CCUUUUGC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG UACAACGU	36449
5299	5731	UAGGCAAA G GGCAAUUC	14715	AGAUUGCC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG UUUGCCUA	36450
5300	5730	AGGCAAG G GCAUCUC	14716	GAGAUUGC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CUUUGCCU	36451
5321	5709	CCCAUCU G ACACUAGG	14717	CCUAGUGU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AAGAUGGG	36452
5328	5702	UGACACUA G GCACAAAC	14718	GUUUGUGC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG UAGUGUCA	36453
5351	5679	GUUUUCCC G GUGUAUUC	14719	GAAUACAC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG GGAAGAC	36454
5363	5667	UAUUCUGU G AUCCAUUC	14720	GAAUGGAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG ACAGAAUA	36455
5379	5651	CGUAUCCA G AGUUCCAA	14721	UUGGAACU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG UGGAUACG	36456
5392	5638	CCAAGCUC G AUCCGGGA	14722	UCCCGGAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG GAGCUUGG	36457
5397	5633	CUCGAUCC G GGAUCUCA	14723	UGAGAUC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG GGAUCGAG	36458
5398	5632	UCGAUCCG G GAUCUCAG	14724	CUGAGAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CGGAUCGA	36459
5399	5631	CGAUCCGG G AUCUCAGU	14725	ACUGAGAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CCGGAUCG	36460
5417	5613	UGUAAGUC G GAAAUUGG	14726	CCAAUUDC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG GACUUACA	36461
5418	5612	GUAAGUCG G AAUUGGU	14727	ACCAUUU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CGACUUAC	36462
5424	5606	CGGAAAU G GUGAAUUG	14728	CAAUAC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AAUUDCCG	36463
5427	5603	AAAUUGGU G AAUUGGAC	14729	GUCCAAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG ACCAAUUU	36464
5432	5598	GGUGAAU G GACUCUGG	14730	CCAGAGUC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AAUUCACC	36465
5433	5597	GUGAAUUG G ACUCUGGG	14731	CCAGAGU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CAAUUCAC	36466
5439	5591	UGGACUCU G GGAUUGGA	14732	UCCAUUC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AGAGUCCA	36467
5440	5590	GGACUCUG G GAUUGGAU	14733	AUCCAUC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CAGAGUCC	36468
5441	5589	GACUCUGG G AAUGGAUC	14734	GAUCCAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CCAGAGUC	36469
5445	5585	CUGGGAU G GAUCUGAA	14735	UUCAGAU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AUUCCCGAG	36470
5446	5584	UGGGAUUG G AUCUGAAG	14736	CUUCAGUC GGAGGAAACUCCCUUAAGGACAUCGUCGCGG CAUCCCA	36471
5451	5579	AUGGAUCU G AAGUGCCU	14737	AGGCACU GGAGGAAACUCCCUUAAGGACAUCGUCGCGG AGAUCCA	36472

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5460	5570	AAGUGGU G GUGGGUG	14738	CACCCAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AGGCACUU	36473
5463	5567	UGCCUGGU G GGGUGGU	14739	AGCCACC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCAGGCA	36474
5464	5566	GCCUGGU G GGGUGGU	14740	CAGCCACC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CACCAGG	36475
5465	5565	CCUGGUG G GUGGUGU	14741	ACAGCCAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CCACCAGG	36476
5468	5562	GGUGGGU G GUGUGAU	14742	AUGACAGC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCCCACC	36477
5477	5553	GCUGUCAU G AAUAUUG	14743	GCAUAU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AUGACAGC	36478
5504	5526	CCUAGCUC G ACCUUGU	14744	ACAAAGGU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG GAGCUAGG	36479
5513	5517	ACCUUGU G GAAUGUA	14745	UACAUAU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG ACAAAGGU	36480
5514	5516	CCUUGU G AAUUGUA	14746	UUAUAU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CACAAAGG	36481
5544	5486	UGCUGGU G GUGGUGU	14747	CACCGACC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AGCUAGCA	36482
5545	5485	GCUGGUG G GUGGUGA	14748	UCACCGAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CAGCUAGC	36483
5549	5481	GCUGGUG G GUGAAUG	14749	CAUUCAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG GACCCAGC	36484
5552	5478	GGUGGUG G AAUAGAC	14750	GCUAUAU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCGACCC	36485
5557	5473	GGUGAAU G AGCUCAU	14751	AUGAGGU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AUUUCACC	36486
5573	5457	UCCAUCAC G AACAGGU	14752	AACUGUU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG GUGAUGGA	36487
5578	5452	CACGAACA G GUUGUAGU	14753	ACTUACA GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG UGUUCGUG	36488
5589	5441	UGUAGUUC G GCACCCUG	14754	CAGGUGC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG GAACUACA	36489
5599	5431	CACCCUGU G AGGAGACA	14755	UGUCUCU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG ACAGGGUG	36490
5601	5429	CCCUGUA G GAGACAUC	14756	GAUUCUC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG UCACAGGG	36491
5602	5428	CCUGUGAG G AGACAUA	14757	UGAUGUC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CUCACAGG	36492
5604	5426	UGUGAGGA G ACAUCAGC	14758	GCUGAUG GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG UCCUCACA	36493
5617	5413	CAGCCUGU G GGUGAGG	14759	CCUCACC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG ACAGGCUG	36494
5618	5412	AGCCUGUG G GUGAGGU	14760	ACCUCAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CACAGGCU	36495
5621	5409	CUGUGGU G AGGGUAGC	14761	GCUACCCU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG ACCACAG	36496
5623	5407	GUGGUGA G GGUAGCAU	14762	AUGCUACC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG UCACCCAC	36497
5624	5406	UGGUGAG G GUAGCAU	14763	CAUGCUAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CUCACCCA	36498
5632	5398	GGUAGCAU G ACACAUA	14764	UCAUGUG GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AUGCUACC	36499
5639	5391	UGACACAU G ACAUCAAC	14765	GUUGAUG GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AUGUGUCA	36500
5672	5358	UGUUCUCU G GGCACUGC	14766	GCAGUGCC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AGAGAACA	36501
5673	5357	GUUCUCUG G GCACUGG	14767	CGCAGUGC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CAGAGAAC	36502
5681	5349	GGCAGUC G GAUGUCUG	14768	CAGACAUC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG GCAGUGCC	36503
5682	5348	GCACUGG G AUGUCUGG	14769	CCAGACAU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CGCAGUGC	36504
5689	5341	GGUUGUCU G GUACCGGA	14770	UCCGUUAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AGACAUC	36505
5695	5335	CUGGUACC G GAUGGGCA	14771	UGCCCAUC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG GGUACCCAG	36506
5696	5334	UGGUACCG G AUGGGCAG	14772	CUGCCCAU GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CGGUACCA	36507
5699	5331	UACCGAU G GGCAGUCC	14773	AGGAGGCC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AUCCGGUA	36508
5700	5330	ACCGGAU G GCAGUCCU	14774	AGGACUGC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG CAUCCGGU	36509
5744	5286	ACAACCCU G GUUGGUGC	14775	GCACCAAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AGGUUGU	36510
5748	5282	CCUUGGU G GUGCUAGC	14776	GUAGCAC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG AACCCAGG	36511
5759	5271	GCUAGCAC G GCUGUUCU	14777	AGAACAGC GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG GUGCUAGC	36512

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5783	5247	CUGUUUUAU G GCCUCUUU	14778	AAAGAGGC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AUAACACAG	36513
5792	5238	GCCUCUUU G AUGAUCUG	14779	CAGAUCAU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AAAGAGGC	36514
5795	5235	UCUUUGAU G AUCUGUGG	14780	CCACAGAU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AUCAAAGA	36515
5802	5228	UGAUCUGU G GCAGAAUC	14781	GAUUCGUC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG ACAGAUCA	36516
5806	5224	CUGUGGCA G AAUCCUCC	14782	GGAGGAUU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGCCACAG	36517
5825	5205	GUUUUACC G GCGCGGG	14783	CCCGGGC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GGUAAAAC	36518
5831	5199	CCGGCGCC G GGAUGGAG	14784	CUCCAUCC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GCGCGCGG	36519
5832	5198	CGGCGCCG G GAUGGAGA	14785	UCUCAUC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CGGCGCGG	36520
5833	5197	GGCGCCGG G AUGGAGAU	14786	AUCUCCAU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CCGCGCGC	36521
5836	5194	GCGGGGAU G GAGAUCCA	14787	UGGAUCUC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AUCCGCGC	36522
5837	5193	CCGGGAUG G AGAUCCAG	14788	CUGGAUCU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAUCCCGG	36523
5839	5191	GGGAUGGA G AUCCAGUA	14789	UACUGGAU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UCCAUCUC	36524
5852	5178	AGUACAGU G AUCUGUUU	14790	AAACAGAU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG ACUGUACU	36525
5877	5153	GCAUCUCA G GUUCGAU	14791	AUUCGAAC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGAGAUUC	36526
5882	5148	UCAGGUUC G AAUCCGGC	14792	GCCGGAUU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GAACCCUGA	36527
5888	5142	UCGAAUCC G GCUGGGAU	14793	AUCCAGC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GGAUUCGA	36528
5892	5137	AUCCGGGU G GGAUUGG	14794	GCCAAUCC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AGCCGGAU	36529
5893	5138	UCGGGCTG G GAUUGGU	14795	AGCCAAUC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAGCCGGA	36530
5894	5136	CCGGCUGG G AUUGGCU	14796	GAGCCAUC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CCAGCCGG	36531
5898	5132	CUGGGAUU G GCUCAUCC	14797	GGAUGAGC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AAUCCCAG	36532
5940	5090	UUUAUGAU G AGCGUUG	14798	CAACGGCU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AUACAUA	36533
5948	5082	GAGCGGUU G GGAUUAU	14799	AUAUCC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AACGGCUC	36534
5949	5081	AGCGGUUG G GCAUUAUG	14800	CAUAUUC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAACGGCU	36535
5957	5073	GGCAUUAU G ACUCCAUC	14801	AAUGGAGU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AUAUUGCC	36536
6006	5024	CCACUAUU G GUGAGCCU	14802	AGGCUAC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AAUAGUGG	36537
6009	5021	CUAUGGUU G AGCUGAU	14803	AUCAGGCU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG ACCAAUAG	36538
6015	5015	GUGAGCCU G AUGUCCA	14804	UGGAACAU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AGGCUAC	36539
6026	5004	GUUCCAGU G GGAAGUC	14805	GACUCCC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG ACUGGAAC	36540
6027	5003	UUCAGUG G GGAAGUCC	14806	GGACUCC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CACUGGAA	36541
6028	5002	UCCAGUGG G GAAGUCCA	14807	UGGACUUC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CCAUGGGA	36542
6029	5001	CCAGUGGG G AAGUCCAA	14808	UUGGACU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CCCACUGG	36543
6044	4986	AAAGUCAC G GCCCCGAU	14809	AUCGGGC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GUGACUUU	36544
6050	4980	ACGGCCCC G AUUUCUCC	14810	GGAGAAU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG GGGGCCGU	36545
6063	4967	CUCUUA G GUGUUUG	14811	CAAAACAC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGAAGGAG	36546
6071	4959	GUGUUUUU G AACACCCC	14812	GGGUGUU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AAAACACC	36547
6081	4949	ACACCCCU G GUUUCGUC	14813	GACGAAAC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AGGGGUGU	36548
6091	4939	UUUCGUCU G GACGUUCU	14814	AGAACGUC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG AGACGAAA	36549
6092	4938	UUCGUCUG G ACGUUCUU	14815	AAGAACGU GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG CAGACGAA	36550
6114	4916	UCUUGCCA G GUUCCACC	14816	GGUGAAC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGGCAAGA	36551
6173	4857	AAUUAUA G GUUCCUCC	14817	GGAGGACC GGAGGAAACUCCCUUUAAGGACAUUCGUCCGGG UGGAAAUU	36552

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6174	4856	AUUCCAG	G	GUCCUCG	14818	CGAGGAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUGGAAU	36553
6193	4837	ACAAAGC	G	AUCCUCU	14819	AGGAGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GACUUUGU	36554
6203	4827	UCCUCUU	G	ACACUGC	14820	GGCAGUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGGAGGA	36555
6219	4811	CCCAGAU	G	GGUCCAGG	14821	CCUGGACC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUACUGGG	36556
6220	4810	CCAGUAU	G	GUCCAGGC	14822	GCUCGGAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAUACUGG	36557
6226	4804	UGGGUCCA	G	GCGGCCUU	14823	AGGGCCGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGACCCA	36558
6229	4801	GUCCAGGC	G	GCCUCUC	14824	GAGAGGGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCCUGGAC	36559
6251	4779	AUCAAGC	G	GUCCUUU	14825	AAAGGAGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCUUUGAU	36560
6274	4756	AUGCCAAA	G	GGUGUGGA	14826	UCCACACC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUUGGCAU	36561
6275	4755	UGCCAAAG	G	GUGUGGAA	14827	UCCACAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUUUGGCA	36562
6280	4750	AAGGUGU	G	GAAAACAC	14828	GUGUUUUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACACCCUU	36563
6281	4749	AGGUGUG	G	AAAACACC	14829	GGUUUUUU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CACACCCU	36564
6316	4714	UCCUGCUU	G	AUAACUGC	14830	GCAUUUAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAGCAGGA	36565
6326	4704	UAACUGCC	G	AGCAGGCC	14831	GGGUGUCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGCAGUUA	36566
6337	4693	CAGCCAC	G	AGUCAUGA	14832	UCAUGACU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GUGGGCUG	36567
6344	4686	CGAGUCAU	G	AUCCUGUA	14833	UACAGGAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AUGACUCG	36568
6353	4677	AUCCUGUA	G	ACGCCGGU	14834	ACCGGCGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UACAGGAU	36569
6359	4671	UAGACGCC	G	GUGGUGU	14835	ACGACCAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GGCGUCUA	36570
6362	4668	ACGCCGGU	G	GUCGUGUC	14836	GACACGAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCGGCGU	36571
6390	4640	ACUCCUUU	G	GUGAGGGA	14837	UCCUCAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAAGGAGU	36572
6393	4637	CCUUUGGU	G	AGGGAGUG	14838	CACUCCCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	ACCAAAGG	36573
6395	4635	UUUGGUGA	G	GGAGUGUC	14839	GACACUCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCACCCAA	36574
6396	4634	UUUGGAG	G	GAGUGUCC	14840	GACACACU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUACCCAA	36575
6397	4633	UGGUGAGG	G	AGUGUCCC	14841	GGGACACU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCUCACCA	36576
6433	4597	UGUGUAUU	G	GAGAGUUA	14842	UAACUCUC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AAUACACA	36577
6434	4596	GUGUAUUG	G	AGAGUUUAU	14843	AUAACUCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CAAUACAC	36578
6436	4594	GUUUUGGA	G	AGUUUAUCC	14844	GGUAUAACU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCCAUAUC	36579
6459	4571	CAACUACU	G	AGGGCAAG	14845	CUUGCCCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGUAGUUG	36580
6461	4569	ACUACUGA	G	GGCAAGAU	14846	AUCUUGCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCAGUAGU	36581
6462	4568	CUACUGAG	G	GCAAGAUU	14847	AAUCUUGC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUCAGUAG	36582
6467	4563	GAGGCCAA	G	AUUGCCCA	14848	UGGGCAAU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UUGCCCUU	36583
6476	4554	AUUGCCCA	G	GGGUGUA	14849	UACACCCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGGGCAAU	36584
6477	4553	UUGCCAG	G	GGGUGUAC	14850	GUACACCC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CUGGGCAA	36585
6478	4552	UGCCAGG	G	GGUGUACG	14851	CGUACACC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCUGGGCA	36586
6479	4551	GCCAGGG	G	GUGUACGC	14852	GCGUACAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	CCUUGGGC	36587
6497	4533	CUAAUCGC	G	AGACAGAC	14853	GUCUGUCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	GCGAUUAG	36588
6499	4531	AUUCGGA	G	ACAGACCA	14854	UGGUCUGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UCGCGAUU	36589
6503	4527	GCGAGACA	G	ACCAUUCU	14855	AGAAUGGU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UGUCUCGC	36590
6512	4518	ACCAUUCU	G	AGCAUCCA	14856	UGGAUGCU	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	AGAAUGGU	36591
6531	4499	UCUCCAA	G	GUGCUCCU	14857	AGGAGCAC	GGAGGAAACUCCCUCAAGGACAUCGUCGCGG	UTUGGAAGA	36592

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6540	4490	GUGUCCU G GAUCAUUC	14858	GAAUGAUC GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGGAGCAC	36593
6541	4489	UGCUCUG G AUCAUUA	14859	UGAAUGAU GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAGGAGCA	36594
6551	4479	UCAUCAU G AGCUGGAA	14860	UUCACGU GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUGAAUGA	36595
6556	4474	CAUGAGCU G GAAGUUUC	14861	GAAACUUC GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGCUCAUG	36596
6557	4473	AUGAGUG G AGUUUCC	14862	GGAAACUUC GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAGCUCAU	36597
6600	4430	UUUCGUC G AGCCUGUA	14863	UACAGGCU GGAGGAAACUCCUUAAGGACAUCGUCGCGG GAGCGAAA	36598
6629	4401	CUUCCCA G GAAUGUC	14864	GACAUUUC GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGGGAAAG	36599
6630	4400	UUUCCAG G AAUUGUC	14865	GGACAUUU GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUGGGAAA	36600
6666	4364	UAUCUGU G AUUCCCA	14866	UGGGAAAU GGAGGAAACUCCUUAAGGACAUCGUCGCGG AACAGAU	36601
6675	4355	AUUCCCA G AAUACAG	14867	CGUGAUUU GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGGGAAAU	36602
6683	4347	GAAUAC G AAGCAGC	14868	GCUGCUUU GGAGGAAACUCCUUAAGGACAUCGUCGCGG GUGAUUUC	36603
6698	4332	GCAACAU G AGCCCGC	14869	GCGGGCU GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUGUUUGC	36604
6707	4323	AGCCCGC G AUAGUCAU	14870	AUGACUUA GGAGGAAACUCCUUAAGGACAUCGUCGCGG GCGGGGCU	36605
6717	4313	UAGUCAU G GAUUGCC	14871	GGCCAUUC GGAGGAAACUCCUUAAGGACAUCGUCGCGG AAUGACUA	36606
6718	4312	AGUCAUG G AAUGCCA	14872	UGGCCAUU GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAAUGACU	36607
6722	4308	AUUGAAU G GCCAUGA	14873	UCCAUUGC GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUUCCAAU	36608
6728	4302	AUGCCAU G GAGUCAU	14874	AUUGACUC GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUGGCCAU	36609
6729	4301	UGGCCAU G AGUCAUG	14875	CAUUGACU GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAUGGCCA	36610
6758	4272	AGCCUCC G ACGAUGC	14876	GCCAUCGU GGAGGAAACUCCUUAAGGACAUCGUCGCGG GGAGGGCU	36611
6761	4269	CCUCCGAC G AUGCAAA	14877	UUUGCCAU GGAGGAAACUCCUUAAGGACAUCGUCGCGG GUCGGAGG	36612
6764	4266	CCGAGAU G GCAACAU	14878	AUGUUUUG GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUCGUCGG	36613
6775	4255	AAACAUU G GCCGACG	14879	CUGUCGGC GGAGGAAACUCCUUAAGGACAUCGUCGCGG UAAUGUUU	36614
6779	4251	AUUAGGC G ACAGCUG	14880	ACAGCUGU GGAGGAAACUCCUUAAGGACAUCGUCGCGG GGCCUAAU	36615
6803	4227	UCAGUUG G GGCAUCC	14881	GGAUGGC GGAGGAAACUCCUUAAGGACAUCGUCGCGG GCAACUGA	36616
6804	4226	CAGUUGC G GCCAUCCG	14882	CGGAUGGC GGAGGAAACUCCUUAAGGACAUCGUCGCGG CGCAACUG	36617
6820	4210	GCGUUUAC G GUUGGGAU	14883	AUCCCAAC GGAGGAAACUCCUUAAGGACAUCGUCGCGG GUAAACGC	36618
6824	4206	UUAACGUU G GGAUCACA	14884	UGUGAUCC GGAGGAAACUCCUUAAGGACAUCGUCGCGG AACCGUAA	36619
6825	4205	UACGUUG G GAUCACU	14885	AUGUGAUC GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAACCGUA	36620
6826	4204	ACGUUGG G AUCACAU	14886	CAUGUGAU GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCAACCGU	36621
6853	4177	AGCAGCA G GAUCAUG	14887	CCAUGAUC GGAGGAAACUCCUUAAGGACAUCGUCGCGG UUGCUGCU	36622
6854	4176	GCAGCAAG G AUCAUGG	14888	CCAUGAU GGAGGAAACUCCUUAAGGACAUCGUCGCGG CUUGCUGC	36623
6860	4170	AGGAUCAU G GGUUGAA	14889	UUCAACCC GGAGGAAACUCCUUAAGGACAUCGUCGCGG AUGAUCCU	36624
6861	4169	GGAUCAUG G GGUUGAAA	14890	UUUCAACC GGAGGAAACUCCUUAAGGACAUCGUCGCGG CAUGAUCC	36625
6862	4168	GAUCAUG G GUUGAAA	14891	UUUUCAAC GGAGGAAACUCCUUAAGGACAUCGUCGCGG CCAUGAUC	36626
6866	4164	AUGGGUU G AAAGUCC	14892	GGACUUUU GGAGGAAACUCCUUAAGGACAUCGUCGCGG AACCCCAU	36627
6879	4151	GUCCUGU G AGGCUAGA	14893	UCUAGCCU GGAGGAAACUCCUUAAGGACAUCGUCGCGG AACAGGAC	36628
6881	4149	CCUGUUGA G GCUAGAGC	14894	GCUCUAGC GGAGGAAACUCCUUAAGGACAUCGUCGCGG UCAACAGG	36629
6886	4144	UGAGGCUA G AGCCAAGC	14895	GCUUGGCU GGAGGAAACUCCUUAAGGACAUCGUCGCGG UAGCCUCA	36630
6901	4129	GCAUAGCA G ACUUGCUC	14896	GAGCAAGU GGAGGAAACUCCUUAAGGACAUCGUCGCGG UGCUAUGC	36631
6944	4086	UUUCCCU G AUCAGCU	14897	AGCUUGAU GGAGGAAACUCCUUAAGGACAUCGUCGCGG AGGAGGAA	36632

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6962	4068	CUAUUCC G ACCAUCNA	14898	UUGAUGGU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	GGAAUAGG	36633
6994	4036	CACUCCA G AUUCAAGC	14899	GUUGAAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UGGAUGUG	36634
7013	4017	CUAGCCC G GGUGUAG	14900	CUAACAC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	GGGCUAGG	36635
7014	4016	UCAGCCG G GUGUUAGC	14901	GUUAAC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	CGGCGUGA	36636
7024	4006	UGUAGCA G GGUAGCA	14902	UGCUAGC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UGCUAACA	36637
7025	4005	GUUAGCAG G GCUAGCAG	14903	CUGUAGC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	CUGCUAAC	36638
7035	3995	CUAGCAGC G GAACAAC	14904	GGUUGUUC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	GCUGCUAG	36639
7036	3994	UAGCAGC G AACAAACA	14905	UGGUUUU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	CGCUUCUA	36640
7050	3980	CCAGUUU G AUGUCGUU	14906	AACGACU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AAACGUGG	36641
7061	3969	GUGGUUGU G AAUUAU	14907	AUAACAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	ACAACGAC	36642
7070	3960	AAUUAU G GCUUCAG	14908	CUGAGAGC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AUAACAUU	36643
7101	3929	CGCCAGU G AAUUAAC	14909	GUUGAAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	ACUGGCGG	36644
7116	3914	ACAUAUA G GGAUCUC	14910	GGAGAUCC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UGAUGUGU	36645
7117	3913	CACUACG G GAUCUCC	14911	GGGGAUC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	CUGAUGUG	36646
7118	3912	ACUACAG G AUUCUCC	14912	UGGAGAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	CCUGAUGU	36647
7127	3903	AUCUCCA G AGCAGAU	14913	AUCUGCU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UGGGAGAU	36648
7132	3898	CCAGAGCA G AAUUGGC	14914	GCCAAAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UGCUCUGG	36649
7138	3892	CAGAAUU G GCGGGCAU	14915	AUGCCCGC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AAAUUCUG	36650
7141	3889	AAUUGGC G GGAUCUGU	14916	ACGAUGC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	GCCAAAUU	36651
7142	3888	AUUUGGC G GCAUCGUG	14917	CACGAUC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	CGCCAAAU	36652
7150	3880	GGAUCGU G AUAAGCCA	14918	UGGUUAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	ACGAUGCC	36653
7162	3868	AGCAUUA G AAAGAAA	14919	UUUUCUU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AAAUUGCU	36654
7166	3864	AUUUGAA G AAACACG	14920	GCUGUUU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UUUCAAAU	36655
7201	3829	GUUCUCCU G GUUGGUCC	14921	GGACCAAC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AGGAGAAC	36656
7205	3825	UCCUGGUU G GUCCAUCU	14922	AGAUGGAC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AACCAAGG	36657
7220	3810	CUUGCUU G AGAACGA	14923	UCGUUUCU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AAAGCGAG	36658
7222	3808	CGCUUGA G AAACGAUG	14924	CAUCGUUU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UCAAGCGG	36659
7227	3803	UGAGAAC G AUGCCACC	14925	GGUGGCAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	GUUUCUCA	36660
7245	3785	UAAACACU G GUUGUAUC	14926	GAUACAA	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AGUGUUUA	36661
7256	3774	UGUAUCU G AAGGUCGC	14927	GCGACCUU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AAGAUACA	36662
7259	3771	AUCUUGAA G GUGCCCAU	14928	AUGGCGAC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UUCAGAAU	36663
7268	3762	GUGGCCAU G AGCGCCAA	14929	UUGGCGCU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AUGGCGAC	36664
7296	3734	CUCCUCC G AAUUAU	14930	AUCUAAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	GGGAGGAG	36665
7302	3728	CGAAUUA G AUUCUGCG	14931	CGCAGAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UAAUUCGG	36666
7310	3720	GAUUCUG G AAAGCUGC	14932	GCAGCUU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	GCAGAAUC	36667
7328	3702	CCCACCA G AUGACUA	14933	UAUGUAU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UUGGUGGG	36668
7331	3699	ACCAAGU G ACUAGCG	14934	CGCUAUGU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	AUCUUGGU	36669
7375	3655	AAACACCA G GACUAGCA	14935	UGCUAGUC	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UGGUGUUU	36670
7376	3654	AACACCAG G ACUAGCAG	14936	CUGCUAGU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	CUGGUGUU	36671
7384	3646	GACUAGCA G AGCAUA	14937	UGAUUGCU	GGAGGAAACUCCUUCUCAAAGGACAUUGUCCGGG	UGCUGAUC	36672

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7401	3629	GUAUAGCU G	GCAUGCUG	14938	CAGCAUGC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AGCUAUAC	36673
7409	3621	GGCAUGCU G	AUCUUGGC	14939	GCCAAGAU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AGCAUGCC	36674
7415	3615	CUGAUCUU G	GCUGUCCA	14940	UGGACAGC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AAGAUCAG	36675
7432	3598	CCUUCUUG G	AAGGACCU	14941	AGGUCCUU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	GCAAGAGG	36676
7435	3595	CUUUGCGAA G	GACCUCUU	14942	AGGAGGUU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UUCGCAAG	36677
7436	3594	UUGCGAAG G	ACCUCUCG	14943	CAGGAGGU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	CUUCGCAA	36678
7444	3586	GACCUCUU G	GGUGGCCA	14944	UGGCCACC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AGGAGGUC	36679
7445	3585	ACUCCUCG G	GUGGCCAA	14945	UUGGCCAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	CAGGAGGU	36680
7448	3582	UCCUGGUU G	GCCAAAGAA	14946	UUCUUGGC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACCCAGGA	36681
7454	3576	GUGGCCAA G	AACACGAC	14947	GUCGUGUU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UUGGCCAC	36682
7460	3570	AAGAACAC G	ACCAGAAG	14948	CUUCUGGU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	GUGUUCUU	36683
7465	3565	CACGACCA G	AAGGCCCA	14949	UGGGCCUU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UGGUUGUG	36684
7468	3562	GACCAGAA G	GCCCAACU	14950	AGUUGGCG	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UUCUGGUC	36685
7477	3553	GCCCAACU G	AAAAGGGU	14951	ACCCUUUU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AGUUUGGC	36686
7482	3548	ACUGAAAA G	GGUCAUUC	14952	GAUUGACC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UUUUCAGU	36687
7483	3547	CUGAAAG G	GUCAUUA	14953	UGAUUGAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	CUUUUCAG	36688
7518	3512	UCACUUGU G	ACUUCACG	14954	CGUGCAGU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACAAGUGA	36689
7526	3504	GACUGCAC G	AGGUCUUU	14955	AAGACCCU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	GUGCAGUC	36690
7528	3502	CUGCACGA G	GGUCUUUU	14956	AAAAGACC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UCGUGCAG	36691
7529	3501	UGCACGAG G	GUCUUUUC	14957	GAAAAGAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	CUCUGUCA	36692
7551	3479	GUCUCUGU G	GUCUGAUC	14958	GAUCAGAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACAGAGAC	36693
7556	3474	UGUGGUUU G	AUUCUCAA	14959	AUGGAGAU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AGACCACA	36694
7591	3439	GUCAGUUU G	GUAGCGCA	14960	UGCGCUAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AAACUGAC	36695
7602	3428	AGCGCAGU G	GUGGUUAG	14961	CUUACCAU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACUGCGCU	36696
7605	3425	GCAGUGGU G	GUUAGGUG	14962	CACCUUAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACCACUGC	36697
7610	3420	GGUGGUUA G	GUUCAGCU	14963	AGCUGCAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UUACCACC	36698
7658	3372	CUCUCUGU G	GUGGUGCG	14964	CGCACACU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACAGAGAG	36699
7661	3369	UCUGUGGU G	GUUCGAGU	14965	ACUCGCAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACCACAGA	36700
7666	3364	GGUGGUGC G	AGUGGCAG	14966	CUGCCACU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	GCACCACC	36701
7670	3360	GUGCGAGU G	GCAGGUCC	14967	GGACCUGC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACUCGCAC	36702
7674	3356	GAGUGGCA G	GUCCACGG	14968	CCGUGGAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UGCCACUC	36703
7681	3349	AGGUCCAC G	GUGUCCGC	14969	GCGGACAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	GUGGACCU	36704
7702	3328	CUCACUCA G	GGUGACCG	14970	CGGUCACC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	UGAGUGAG	36705
7703	3327	UCACUCAG G	GUGACCGU	14971	ACGGUCAC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	CUGAGUGA	36706
7706	3324	CUCAGGGU G	ACCGUAGU	14972	ACUACGGU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	ACCCUGAG	36707
7719	3311	UAGUCCUU G	GGCAGUAA	14973	UUACUGCC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AGGAACUA	36708
7720	3310	AGUUCUUG G	GCAGUAAU	14974	AUUACUGC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	CAGGAACU	36709
7730	3300	CAGUAAUC G	AAGUCAAU	14975	AUUACUUU	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	GAAUACUG	36710
7747	3283	CUCUACCC G	GCCUUCGU	14976	ACGAAGGC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	GGGUAGAG	36711
7761	3269	CGUCCCAU G	GGCCCUUG	14977	CCAGGGCC	GGAGGAAACUCCCUUCAAGGACAUUCGUCCGGG	AUGGGACG	36712

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7762	3268	GUCCCAUG G GCCCUGGU	14978	ACCAGGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CAUGGGAC	36713
7768	3262	UGGGCCCU G GUUUUGU	14979	CACAAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AGGGCCCA	36714
7788	3242	UGUACCA G GUCUCCGA	14980	UCGGAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGGGUACA	36715
7795	3235	AGGUCC G AUUGUAGU	14981	AUCACAAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GGAGACCU	36716
7801	3229	CCGAUUGU G AUUGCUUC	14982	GAACAAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACAUCCG	36717
7812	3218	UGCUUGU G GUCCCGC	14983	GGCGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACGAAGCA	36718
7826	3204	GCCAGUGU G ACUGGUU	14984	AUACAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACACUGG	36719
7830	3200	GUGAGACU G GUAUUAUC	14985	GAUAUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AGUCACAC	36720
7852	3178	ACUCUCAA G GAUUCUUA	14986	AUGGAUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UUGAGAGU	36721
7853	3177	CUCUCAG G AUUCCAUC	14987	GAUGAAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CUUGAGAG	36722
7871	3159	CCCCACAA G GUAUGGU	14988	ACGCAUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UUGUGGGG	36723
7884	3146	GCGUCUA G GCCACGUA	14989	UACGUGG GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGAGACGC	36724
7896	3134	ACGUACAU G AUUUGACU	14990	AGUCAAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AUGUACGU	36725
7901	3129	CAUGAUU G ACUUCACC	14991	GGUGAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAUUAUG	36726
7912	3118	UUCACCCA G AACTUGCC	14992	GGGCAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGGUGAA	36727
7943	3087	GUACAUU G AGCCUGCU	14993	AGCAGGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAUUAUC	36728
7964	3066	AUCCAUA G GACAGGUC	14994	GACUGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UAUUGAU	36729
7965	3065	UCCAUAU G ACAGGUCA	14995	UGACUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CUAUUGGA	36730
7969	3061	AUAGACA G GUCACUGU	14996	ACAGUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGUCCUUA	36731
7978	3052	GUCACUGU G GAUCGCCA	14997	UGCGAUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACAGUAC	36732
7979	3051	UCACUGU G AUCGCCAA	14998	UUGCGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CACAGUA	36733
7997	3033	UUGUUCU G ACAGCGU	14999	ACGCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAGAACA	36734
8012	3018	GUCCAUAU G AUUUCGA	15000	UCCAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AUUGGAAC	36735
8019	3011	UGAUUUC G AGUCAU	15001	AUGUACU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GAAGAUA	36736
8048	2982	CUCUCU G ACCUUCAG	15002	CUAGAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AGAGAGAG	36737
8056	2974	GACCUCA G GAACAUC	15003	GGAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UGAAGGUC	36738
8057	2973	ACCUUCAG G AACAUCCG	15004	CGAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CUGAAGGU	36739
8065	2965	GAACAUC G AGUGCUG	15005	CCAGCACU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GGAUGUUC	36740
8072	2958	CGAGUGU G GUGAGACC	15006	GGUCUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AGCACUCG	36741
8075	2955	GUGCUGU G AGACCAA	15007	UUUGUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG ACCAGCAC	36742
8077	2953	GCUGUGA G ACCAAUC	15008	GAUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UCACCAGC	36743
8119	2911	CCAAGGC G AUUCUGAG	15009	CUAGAUA GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GCGUUGG	36744
8125	2905	GCGAUUCU G AGUCGGAC	15010	GUCCGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AGAAUCGC	36745
8130	2900	UCUGAGU G GACAUUC	15011	GGAAUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GACUCAGA	36746
8131	2899	CUGAGUC G ACAUUCU	15012	AGAAUUG GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CGACUCAG	36747
8141	2889	CAUCCUU G GUCUCCG	15013	CCGAGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AAGGAUUG	36748
8148	2882	UGGUUCC G GACCAUA	15014	UGAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG GGAGACCA	36749
8149	2881	GGUCCG G ACCAUCA	15015	UUGAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG CGGAGACC	36750
8165	2865	ACCAAA G GUGUUGU	15016	AACAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG UUUGUGU	36751
8174	2856	GUGUUGU G GCGAUUC	15017	GAACUC GGAGGAAACUCCCUUCAAAGGACAUCGUCUCCGG AACAAAC	36752

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8177	2853	UUUUUGGC G AGUUCUGG	15018	CCAGAACU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	GCCAACAA	36753
8184	2846	CGAGUUCU G GUGCAAAU	15019	AUUGCAC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGAACUCG	36754
8210	2820	UUUUCCCC G GCUUCCA	15020	UGGAAGC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UGGGGAAA	36755
8240	2790	UUUUCCGU G GUGGCGGU	15021	ACGCCAC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	ACGGAAAA	36756
8243	2787	UUUGUGU G GCGGUGAG	15022	CUCACGC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	ACCACGGA	36757
8246	2784	GUGGUGGC G GUGAGGCG	15023	CGCTUCAC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	GCCACCAC	36758
8249	2781	GUGGCGGU G AGGCGUUA	15024	AAACGCCU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	ACCGCCAC	36759
8251	2779	GCGGUGA G GCGUUUAG	15025	CUAAACGC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UCACCGCC	36760
8259	2771	GCGUUUA G GUGCUGAC	15026	GUCAGCAC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UAAACGCC	36761
8265	2765	UAGGUGCU G ACUUGUAC	15027	GUACAAGU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGCACCUA	36762
8297	2733	UCNAACCAC G ACACUAAG	15028	CUUAGUGU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	GUGGUUGA	36763
8305	2725	GACACUAA G GUCCACAC	15029	GUGUGGAC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UUAGUGUC	36764
8329	2701	CUUCAAAA G AGUGUUA	15030	UGAACACU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UUUUGAAG	36765
8365	2665	CCACAUAU G AUGCUCCA	15031	UGGAGCAU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AAAUUGUG	36766
8378	2652	UCCAGUCU G GAAACUGA	15032	UCAGUUUC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGACUGGA	36767
8379	2651	CCAGUCU G AAACUGAU	15033	AUCAGUUU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	CAGACUGG	36768
8385	2645	UGGAAACU G ACGUAGA	15034	UCUACGAU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGUUUCCA	36769
8392	2638	UGAUCGUA G ACGCACCA	15035	UGUGCGGU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UACGAUCA	36770
8413	2617	UUCUUUAU G AGCUUUCU	15036	AGAAAGCU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AUAAGGAA	36771
8422	2608	AGCUUUCU G AAUGAUCU	15037	AGAUAUUU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGAAAGCU	36772
8426	2604	UUUGAAU G AUUUUGGC	15038	GCCAAGAU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AUUCAGAA	36773
8432	2598	AUGAUUUU G GUUAGGCC	15039	GGCCUAGC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AAGAUAU	36774
8437	2593	CUUUGCUA G GCUUUGUG	15040	CACAAGGC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UAGCCAAG	36775
8445	2585	GCCUUUGU G GCUUUUA	15041	UGAAACGC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	ACAAGGCC	36776
8454	2576	GCGUUUCA G GGUAAUAC	15042	GUUUUACC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UGAAACGC	36777
8455	2575	CGUUUCAG G GUAAUAU	15043	AGUAUUAC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	CUGAAACG	36778
8470	2560	CUUGUACC G GUCCAUC	15044	GGAUGGAC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	GGUACAA	36779
8501	2529	UUUGUAU G AACAUCC	15045	GGAGUUUU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AUACACAA	36780
8533	2497	CUCUUGCC G GCUGAUGU	15046	ACAUCAGC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	GGCAAGAG	36781
8537	2493	UGCCGGGU G AUGUCUAU	15047	AUAGACAU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AGCCGGCA	36782
8546	2484	AUGUCUAU G GCACACCC	15048	GGGUGUGC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	AUAGACAU	36783
8576	2454	ACGUUAC G GAGAGGAA	15049	UUCUCUC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	GUGAACGU	36784
8577	2453	CGUUCAG G AGAGGAAG	15050	CUUCUCU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	CGUGAACG	36785
8579	2451	UUCACGGA G AGGAAGAG	15051	CUCUUCU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UCCGUGAA	36786
8581	2449	CACGGAGA G GAAGAGCA	15052	UGCUCUUC	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UCUCCGUG	36787
8582	2448	ACGGAGAG G AAGAGCAG	15053	CUGCUCUU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	CUCUCCGU	36788
8585	2445	GAGAGGAA G AGCAGAAC	15054	GUUCUGCU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UUCUCUCU	36789
8590	2440	GAAGAGCA G AACUCCUC	15055	GAGGAGUU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UGCUCUUC	36790
8606	2424	CCAACUGC G AGAAACGU	15056	ACGUUUUU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	GCAGUUGG	36791
8608	2422	AACUGGCA G AAACGUGA	15057	UCACGUUU	GGAGGAAACUCCCUUCAAAGGACAUUCGUCCGGG	UCGCAGUU	36792

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8615	2415	AGAAACGU G AGAGCUAU	15058	AUAGCUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36793
8617	2413	AAACGUGA G AGCUAUGG	15059	CCAUAAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36794
8624	2406	AGAGCUAU G GACCUAUC	15060	GAUAGGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36795
8625	2405	GAGCUAUG G ACCUAUCA	15061	UGAUAGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36796
8635	2395	CCUAUCAC G AGCAUUGA	15062	UCAUAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36797
8642	2388	CGAGCAUU G AUGCCCAU	15063	AUGGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36798
8659	2371	CCACAACA G GAGAGCCC	15064	GGGCUUCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36799
8660	2370	CACAACAG G AGAGCCCC	15065	GGGGCUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36800
8662	2368	CAACAGGA G AGCCCCCA	15066	UGGGGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36801
8690	2340	GUUAUCCA G GACAUGCC	15067	GGCAUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36802
8691	2339	UUAUCCAG G ACAUGCCU	15068	AGGCAUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36803
8702	2328	AUGCCUCC G AACAGUGA	15069	UCACUGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36804
8709	2321	CGAACAGU G AGCGGAU	15070	AUUCGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36805
8713	2317	CAGUAGC G GAUUCUC	15071	GAGCAUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36806
8714	2316	AGUGAGG G AAUGCUCC	15072	GGAGCAUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36807
8726	2304	GCUCUCC G AACACUUG	15073	CAAGUGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36808
8734	2296	GAACACUU G AUGGACAG	15074	CUUGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36809
8737	2293	CACUUGAU G GACAGCCU	15075	AGGCUUUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36810
8738	2292	ACUUGAU G ACAGCCUU	15076	AAGGCUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36811
8754	2276	UCCCACTU G AGGUGAAC	15077	GUUCACCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36812
8756	2274	CCAACUGA G GUGAACAC	15078	GUGUUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36813
8759	2271	ACUGAGGU G AACACCCC	15079	GGGUGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36814
8775	2255	CUCCAACU G AUCCAAAG	15080	CUUUGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36815
8803	2227	GUUCUCCA G AGCGGCUA	15081	UAGCCGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36816
8807	2223	CCUAGAGC G GCUAGUCU	15082	AGACUAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36817
8828	2202	GCUCUUCU G AGGGUGGU	15083	ACCACCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36818
8830	2200	UCUUUUGA G GGUGGUGU	15084	CAACCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36819
8831	2199	CCUUUGAG G GUGGUUGU	15085	ACAAACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36820
8834	2196	UUGAGGGU G GUUGUAAA	15086	UUUACAA GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36821
8843	2187	GUUGUAAA G GCUUUGCC	15087	GGCAAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36822
8865	2165	UGCUUCCA G ACUUGUGC	15088	GCACAAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36823
8878	2152	GUGCCAAU G GUGAUUGA	15089	UCAUUCAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36824
8881	2149	CCAUGGU G AUUGAUUC	15090	AGAUCAAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36825
8885	2145	UGGUGAUU G AUCUGUUG	15091	CAACAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36826
8919	2111	CUUUGAUU G AGUCUCCA	15092	UGGAGACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36827
8930	2100	UCUCCAAA G GGUGGUUC	15093	GAACACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36828
8931	2099	CUCCAAAG G GUGGUUCC	15094	GGAACAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36829
8934	2096	CAAAGGUU G GUUCCAAU	15095	AUUGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36830
8950	2080	UUCAAUCA G GACCUUAG	15096	CUAAGGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36831
8951	2079	UCAAUCAU G ACCUAGC	15097	GCUAAGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGGG	36832

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8963	2067	UUAGGCUU G GCGUGGC	15098	GCCACGGC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AACGCUAA	36833
8969	2061	UUGGCCGU G GCCACUGA	15099	UCAGUGGC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG ACGGCCAA	36834
8976	2054	UGGCACU G AAACAAA	15100	UUUUGUUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AGUGGCCA	36835
8985	2045	AAACAAA G GGUUGACA	15101	UGUCAACC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UUUUGUUU	36836
8986	2044	AACAAAAG G GUUGACAG	15102	CUGUCAAC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG CUUUUGUU	36837
8990	2040	AAAGGCUU G ACAGUGAC	15103	GUCACUGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AACCCUUU	36838
8996	2034	UUGACAGU G ACCAAUCU	15104	AGAUUGGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG ACUGUCA	36839
9012	2018	UGCCACU G GCGUUGG	15105	CCUAACGC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AGUGGGCA	36840
9019	2011	UGGCUUA G GUCGUUCA	15106	UGAACGAC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UAACGCCA	36841
9030	2000	CGUCAAU G AAGCCACU	15107	AGUGGCUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AUUGAACG	36842
9039	1991	AAGCCACU G ACGAGAU	15108	UAUCUCGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AGUGGCUU	36843
9042	1988	CCACUGAC G AGAUAGGA	15109	UCCUAUCU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG GUCAGUGU	36844
9044	1986	ACUGACGA G AUAGGAAC	15110	GUUCCUAU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UCGUCAGU	36845
9048	1982	ACGAGUA G GAACUUUG	15111	CAAAGUUC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UAUCUCGU	36846
9049	1981	CGAGUAU G AACUUUGC	15112	GCAAAGUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG CUAUCUCG	36847
9060	1970	CUUUGCAA G GUCCAUC	15113	GGAUUGAC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UUGCAAAG	36848
9106	1924	AGUGCCGU G ACCUGUGU	15114	ACACAGGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG ACGGCACU	36849
9119	1911	GUGUCUG G GGAGUCCC	15115	GGGACUCC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG GCAGACAC	36850
9120	1910	UGUCUGG G GAGUCCCA	15116	UGGGACUC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG CGCAGACA	36851
9121	1909	GUCUGCG G AGUCCCAA	15117	UUGGGACU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG CCGCAGAC	36852
9130	1900	AGUCCCAA G AAACUUGA	15118	UCAAGUUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UUGGGACU	36853
9137	1893	AGAAACUU G AAAGCCUU	15119	AAGGCUUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AAGUUUCU	36854
9147	1883	AAGCCUUU G AACAGACG	15120	CGUCUGUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AAAGGCUU	36855
9152	1878	UUUGACA G ACGCAUA	15121	UAUGGCGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UGUUCAAA	36856
9161	1869	ACGCCAUA G GUUGUCC	15122	GGAACAAC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UAUGGCGU	36857
9211	1819	CUUCAAU G ACCGACG	15123	CGUCGGGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AUUUGAAG	36858
9216	1814	AAUGACCC G ACGUCAAC	15124	GUUGACGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG GGGUCAUU	36859
9227	1803	GUCAACUU G ACAGUGUU	15125	AACACUGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AAGUUGAC	36860
9240	1790	UGUUGCUU G AAAUUC	15126	GGAAUUUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AAGCAACA	36861
9252	1778	AUUCACA G GAAUGGCU	15127	AGCCAUUC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UGUGGAAU	36862
9253	1777	UUCACAG G AAUGGCU	15128	GAGCCAUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG CUGUGGAA	36863
9257	1773	ACAGGAU G GCUCCAGC	15129	GCUGGAGC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AUUCCUGU	36864
9274	1756	CAAAGCUU G AUGCAGAG	15130	CUCUGCAU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG AAGCUUUG	36865
9280	1750	UUGAUGCA G AGCUCCCU	15131	AGGGAGCU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UGCAUCA	36866
9294	1736	CCUUGU G AGCCCAU	15132	AUUGGCUU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG ACAAGAGG	36867
9312	1718	CUAUCACA G ACUGCUUC	15133	GAAGCAGU GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UGUGAUAG	36868
9323	1707	UGUUCGU G GCGUGUGG	15134	CCACACGC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG ACGAAGCA	36869
9330	1700	UGGCGUGU G GUUCUCA	15135	UGAGGAAC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG ACACGCCA	36870
9393	1637	UGUCCAA G GGAGUUG	15136	CAACUCC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG UUGGAGCA	36871
9394	1636	GUCCAAG G GAGGUUGA	15137	UCAACCUC GGAGGAAAACUCCCUUAAGGACAUCGUCGCGG CUUGGAGC	36872

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9395	1635	CUCCAAGG G AGGUUGAG	15138	CUCAACCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36873
9397	1633	CCAAGGA G GUUGAGGU	15139	ACCUCAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36874
9401	1629	GGGAGGUU G AGGUCCA	15140	AUGGACCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36875
9403	1627	GAGGUUGA G GUCCAUGA	15141	UCAUGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36876
9410	1620	AGGUCCA G AACCACUC	15142	GAGUGGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36877
9421	1609	CCACUCAC G AUGGACCA	15143	UGGUCCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36878
9424	1606	CUCACAU G GACCAAGA	15144	UCUUGGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36879
9425	1605	UCACGAUG G ACCAAGAA	15145	UUCUUGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36880
9431	1599	UGGACCAA G AACGUUU	15146	AAGACGUU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36881
9470	1560	UAUGCAUU G GUGUCAU	15147	AUTGACAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36882
9483	1547	CAUCCCU G ACCGUGGU	15148	ACCACGGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36883
9489	1541	CUGACGU G GUTACAG	15149	CUGUGAAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36884
9540	1490	GUGUGAU G AAGGCGCC	15150	GGCGCCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36885
9543	1487	UGUAUGAA G GCGCCGA	15151	UGCAGCGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36886
9552	1478	GCGCCGA G GAGUGAU	15152	CAUCACUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36887
9553	1477	GCGCGCAG G AGUGAUG	15153	GCAUCACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36888
9557	1473	GCAGGAGU G AUGCUGAA	15154	UUCAGCAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36889
9563	1467	GUGAUGCU G AAUCUCOC	15155	GGGAGAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36890
9577	1453	CCUUGCU G AGUGGCU	15156	GAGCCACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36891
9581	1449	GCCUGAGU G GCUCCAA	15157	GUUGGAGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36892
9596	1434	ACCUGUGU G GAGUAGU	15158	AACUACUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36893
9597	1433	CCUGUGUG G AGUAGUU	15159	AACTUACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36894
9612	1418	UUCGUGUC G ACUCCACA	15160	UGUGGAGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36895
9627	1403	CAGUAGUU G GUCCAUGG	15161	CCAUGGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36896
9634	1396	UGGUCCA G GACAAAA	15162	UUUUUGUC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36897
9635	1395	GGUCCAUG G ACAAAAA	15163	AUUUUUGU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36898
9644	1386	ACAAAAU G GCCACUUC	15164	GAAUGGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36899
9659	1371	UCGUACUU G AAUUAUC	15165	GAGAAUAU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36900
9674	1356	UCUUUCAA G AUGGUUCU	15166	AGAACCACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36901
9677	1353	UUCAGAU G GUUCUUC	15167	GGAGAAACU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36902
9695	1335	AUUGCCUU G GUAGAGCA	15168	UGUCUAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36903
9699	1331	CCUUGUA G AGCAGGCA	15169	UGCCUGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36904
9704	1326	GUAGAGCA G GCAAAUU	15170	AAAUUUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36905
9713	1317	GCAAAUUU G GCGCAUGU	15171	ACAUGGCG GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36906
9801	1229	CAAAAGCU G GGUCAGCA	15172	UGCUGACC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36907
9802	1228	AAAGCUG G GUCAGCAC	15173	GUCUGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36908
9823	1207	GUCAUUGU G AGCUUCUC	15174	GAGAAGCU GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36909
9836	1194	UCUCCAU G GUCGGCA	15175	UGCCCGAC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36910
9840	1190	CCAUGGUC G GGCACGCA	15176	UGCGUGCC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36911
9841	1189	CAUGGUC G GCACGAG	15177	CUGCGUGC GGAGGAAACUCCCUUCAAAGGACAUCGUCGCGG	36912

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9854	1176	GCAGCUUU G GUGGAGAG	15178	CUCUCCAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAAGCUGC	36913
9857	1173	GCUUUGGU G GAGAGAUC	15179	GAUCUCUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACCAAAGC	36914
9858	1172	CUUUGGUG G AGAGAUCG	15180	CGAUCUCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CACCAAAG	36915
9860	1170	UUGGUGGA G AGAUCGCU	15181	AGCGAUCU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UCCACCAG	36916
9862	1168	GGUGGAGA G AUCGCUGA	15182	UCAGCGAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UCUCACCC	36917
9869	1161	AGAUCGCU G ACGGUAGC	15183	GCUAACGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGCGAUCU	36918
9872	1158	UGCGUGAC G GUAGCCNA	15184	UUGGCUAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GUCAGCGA	36919
9895	1135	AUAACUGC G GACCUCUG	15185	CAGAGGUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GCAGUUAU	36920
9896	1134	UAACUGCG G ACCUCUGC	15186	GCAGAGGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CGCAGUUA	36921
9907	1123	CUCUGCCA G GUUGACCG	15187	CGGUCACG GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGGCAGAG	36922
9911	1119	GCCAGGUU G ACCGCCUC	15188	GAGGCGGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AACCUGGC	36923
9941	1089	UUCACAUC G AUGGUAGG	15189	CCUACCAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GAUGUGAA	36924
9944	1086	ACAUCGAU G GUAGGCUU	15190	AAGCCUAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUCGAUGU	36925
9948	1082	CGAUGGUA G GCUUGUCC	15191	GGACAAGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UACCAUCG	36926
9960	1070	UGUCCUUA G ACAUGAUA	15192	UAUCAUGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UAAGGACA	36927
9965	1065	UUAGACAU G AUAUGUCAC	15193	GUGACUAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUGUCUAA	36928
9989	1041	UCGCCUUC G AGAACCAA	15194	UUGGUUUC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GAAGGCGA	36929
9991	1039	GCCUUGGA G AACCAAAU	15195	AUUUGGUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UCGAAGGC	36930
10017	1013	UUGCUCCA G ACACUCCU	15196	AGGAGUGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGGAGCAA	36931
10031	999	CCUJCCAA G AAGUCUCU	15197	AGAGACUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGGAAGG	36932
10054	976	CAUUCCAA G GCAGUUGA	15198	UCAACUGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGGAAUG	36933
10061	969	AGGCAGUU G AAGCUGUA	15199	UACAGCUU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AACUGCCU	36934
10074	956	UGUAGCU G GGGCCACC	15200	GGUGGCCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AGCUUACA	36935
10075	955	GUAGCUG G GGCCACCA	15201	UGGUGGCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CAGCUUAC	36936
10076	954	UAAGCUGG G GCCACCAA	15202	UUGGUGGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CCAGCUUA	36937
10097	933	AAUAGCAC G ACAAAACAC	15203	GUGUUUGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GUGCUAUU	36938
10118	912	CUCUGCAU G GUGUUGCU	15204	AGCAACAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUGCAGAG	36939
10145	885	CAACCAU G ACGGCUGC	15205	GCAGCCGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUUGGUUG	36940
10148	882	CCAUGAC G GCUGCCAC	15206	GUGGCAGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GUCAUUGG	36941
10159	871	UGCCACCA G GGCAUAUC	15207	GAUAUGCC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGGUGGCA	36942
10160	870	GCCACCAG G GCAUAUCC	15208	GGUAUUGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUGGUGGC	36943
10170	860	CAUAUCCA G GGUUCCUC	15209	GAGGAACC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UGGAUAUG	36944
10171	859	AUAUCCAG G GUUCCUCA	15210	UGAGGAAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG CUGGAUAU	36945
10181	849	UUCUCUAA G AUCCAUUA	15211	UCAUGGAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UUGAGGAA	36946
10188	842	AGAUCGAU G AUUCUGUU	15212	AACAGAAU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AUGGAUCU	36947
10214	816	UACCUUGU G GCCUUGGU	15213	ACCAAGGC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACAAGGUA	36948
10220	810	GUGGCCUU G GUGCUGUC	15214	GACAGCAC GGAGGAAACUCCUUCAAGGACAUCGUCCGGG AAGGCCAC	36949
10255	775	GUUGCUGA G AGUGCUUU	15215	AAAGCACU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG UAGCGAAC	36950
10287	743	CUGUCAGU G ACCUCCGA	15216	UCGGAGGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG ACUGACAG	36951
10294	736	UGACCUCC G ACUGGUC	15217	GACGCAGU GGAGGAAACUCCUUCAAGGACAUCGUCCGGG GGAGGDUCA	36952

Table XII

10305	725	UGGUCUU G AGUGGCGU	15218	ACGCCAU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36953
10309	721	UCUUGAGU G GCGUGUCU	15219	AGACACGC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36954
10319	711	CGUGUCUU G GUGCAUCU	15220	AGAUGCAC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36955
10337	693	CCAUACCU G ACUGAGAC	15221	GUCUACGU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36956
10343	687	CUGACGUA G ACUGCUGA	15222	UCAGCAGU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36957
10350	680	AGACUGCU G ACUUGUG	15223	CACAAAGU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36958
10370	660	CAACAGUC G AUGCUUUC	15224	GAAGACAU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36959
10380	650	UGUCUUCU G GAUCAUUA	15225	UAAUGAUC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36960
10381	649	GUCUUCUG G AUCAUUA	15226	GUAAUGAU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36961
10395	635	UACCAGCC G ACAGCACU	15227	AGUGCUGU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36962
10404	626	ACAGCACU G GCAUUA	15228	UGAAUGCC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36963
10405	625	CAGCACUG G GCAUUA	15229	AUGAAUGC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36964
10418	612	UCAUAAGU G AUAGUAUC	15230	GAUACUUA	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36965
10457	573	AUUGCUU G ACAAUGCA	15231	UGCAUUGU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36966
10468	562	AUUGCAUA G GUUCUUDC	15232	GAAGAAGC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36967
10488	542	CAGCUGUU G GAUUCGUG	15233	CACGAUUC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36968
10489	541	AGCUGUUG G AAUCGUGA	15234	UCACGAUU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36969
10496	534	GGAUUCGU G AUGACAUC	15235	GAUGUCAU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36970
10499	531	AUCUGAU G ACAUCUGU	15236	ACAGAUUU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36971
10508	522	ACAUCUGU G AGCUCAGU	15237	ACUGACGU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36972
10546	484	CUUCCUU G GAAGUUA	15238	CUAACUUC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36973
10547	483	UUCUUUG G AAGUUA	15239	UCUAAAUU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36974
10554	476	GGAAGUUA G AGAGGUA	15240	UACCCUU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36975
10556	474	AAGUUA G AGGUAAC	15241	GUUACCCU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36976
10558	472	GUUAGAGA G GUAACUG	15242	CAGUUAAC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36977
10559	471	UUAAGAG G GUAACUGC	15243	GCAGUUA	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36978
10577	453	CCUACGCU G GCGAUCAG	15244	CUGAUCGC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36979
10580	450	ACGUGGC G AUCAGGCC	15245	GGCCUGAU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36980
10585	445	GGCGAUA G GCCAAUA	15246	UGAUUGGC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36981
10595	435	CCAUCAU G ACUGCAU	15247	AUUGCAGU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36982
10607	423	GCAAUUC G GUCUUUC	15248	GGAAAGAC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36983
10635	395	UUUGUUU G AGCUCGC	15249	GCGGAGCU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36984
10645	385	GCUCGCC G AUUGAUAG	15250	CUAUCAAU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36985
10649	381	GCUCGCU G AUAGCAU	15251	AGUCUAU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36986
10658	372	AUAGCAU G GUCAAGU	15252	ACUUAUAC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36987
10664	366	CUGGUCAA G GUCCCUAG	15253	CUAGGAC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36988
10690	340	AAAUCAU G AAGGUGU	15254	AACACCUU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36989
10693	337	ACUCAGAA G GUGUUUA	15255	UGAAACAC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36990
10732	298	UCUCCAU G AUCCAGCA	15256	UGUGGAU	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36991
10747	283	CACUGCUC G GGUCGGAG	15257	CUCCGACC	GGAGAAACUCCCUUCAAAGGACAUCGUCGCGG	36992

Table XII

10748	282	ACUGCUG G GUCGGAGC	15258	GCUCCGAC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CGAGCAGU	36993
10752	278	CUCGGUC G GAGCAAUU	15259	AAUUGCUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GACCCGAG	36994
10753	277	UCGGGUC G AGCAUUG	15260	CAAUUGCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CGACCCGA	36995
10766	264	AUUGCUGU G AACUGAA	15261	UUCAGGUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	ACAGCAU	36996
10772	258	GUGACCU G AAGACGC	15262	GCGUUCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AGGUUCAC	36997
10775	255	AACUGAA G AAGCCAA	15263	UUGGCGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UUCAGGUU	36998
10784	246	AACGCCA G AGAGCAA	15264	UUGGCGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UUGGCGU	36999
10786	244	CGCCAAG G AGCCAAC	15265	UGUUGCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UCUUGGCG	37000
10806	224	AUCGUU G GCCCUUG	15266	CAAGGGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AAUACGAU	37001
10820	210	UUGCGUC G AUCAGGU	15267	AGCCUGAU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GACGGCAA	37002
10825	205	GUGAUA G GCUCAACA	15268	UGUUGAGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UGAUCGAC	37003
10856	174	CCAUAUA G GACACAC	15269	GUGUUGUC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UUGAUUGG	37004
10857	173	CAUAAG G ACACACG	15270	CGUGUUGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CUUGAUUG	37005
10867	163	CAACACG G GGGCAUUC	15271	GAAUGCCC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GCGUGUUG	37006
10868	162	AACACGC G GGCATUCC	15272	GGAUUGCC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CGCGUGU	37007
10869	161	ACACGCG G GCAUCCG	15273	CGGAUUGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CCGCGUGU	37008
10892	138	AGCAUAU G ACAGCCG	15274	CGGGUGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AAUAGUCU	37009
10900	130	GACAGCC G GCUCUUG	15275	GCAAGAGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GGGCGUGC	37010
10910	120	CUUUGCC G GGCCUCC	15276	GGAGGGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GGCAAGAG	37011
10911	119	UCUUGCC G GCCUCCU	15277	AGGAGGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	CGGCAAGA	37012
10920	110	GCCUCCU G GUUUCUA	15278	UAGAAGC GGAGAAACUCCCUCAAGGACAUCGUCGCGG	AGGAGGC	37013
10929	101	GUUUCUA G ACAUGAG	15279	CUCGAUGU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UAAGAAAC	37014
10935	95	UAGACAUC G AGAUCUUC	15280	GAAGAUCU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	GAUGUCUA	37015
10937	93	GACAUCGA G AUCUUGU	15281	ACGAAGAU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UCGAUGUC	37016
10951	79	CGUGCUA G AAACAGCU	15282	AGCUGUUU GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UUAGCACG	37017
11019	11	CUCACACA G GCGAACUA	15283	UAGUUCG GGAGAAACUCCCUCAAGGACAUCGUCGCGG	UGUGUGAG	37018

Input Sequence = AF196835\_rc. Cut Site = G/.

Arm Length = 8. Core Sequence = GGAGAAACUCCCUCAAGGACAUCGUCGCGG

AF196835\_rc reverse complement of West Nile virus strain NY99-flamingo382-99, complete genome

Table XIII

Table XIII: WNV Enzymatic Nucleic Acid and Target Sequence

Pos	Substrate	Seq ID	Alias	Enzymatic Nucleic Acid	RPI #	Seq ID
698	GUCAGGU A UGAAGA	15284	WNV-698 Rz-7 Ome stab1	ucnucca CUGAUGAggcccguuaggccGAA Accugac B	23047	37019
3021	AGAUAU U GGAACGG	15285	WNV-3021 Rz-7 Ome stab1	ccguucc CUGAUGAggcccguuaggccGAA Augaucu B	23048	37020
4082	GGCAGCU U GAUCAGG	15286	WNV-4082 Rz-7 Ome stab1	ccugauc CUGAUGAggcccguuaggccGAA Agcugcc B	23049	37021
7400	CCAGAAU U AGAGCGC	15287	WNV-7400 Rz-7 Ome stab1	gcgcucu CUGAUGAggcccguuaggccGAA Auucugg B	23050	37022
9915	CUCGCAU A UCUCAG	15288	WNV-9915 Rz-7 Ome stab1	cuggaga CUGAUGAggcccguuaggccGAA Augcgag B	23051	37023
256	GGCGUUC U UCAGGUU	15289	WNV-256 CHz-7 Ome stab1	aaccuga CUGAUGAggcccguuaggccGAA Iaagcc B	23052	37024
1488	CGGCGCC U UCAUACA	15290	WNV-1488 CHz-7 Ome stab1	uguauga CUGAUGAggcccguuaggccGAA Igcgccg B	23053	37025
6802	GCUCUCC C UUCUCUU	15291	WNV-6802 CHz-7 Ome stab1	aagagaa CUGAUGAggcccguuaggccGAA Igagagc B	23054	37026
7344	CAGCGGC C GGAAUCA	15292	WNV-7344 CHz-7 Ome stab1	ugauucc CUGAUGAggcccguuaggccGAA Iccgcug B	23055	37027
9733	GCUCCAC U UCCUCA	15293	WNV-9733 CHz-7 Ome stab1	uugagga CUGAUGAggcccguuaggccGAA Iuggagc B	23056	37028
1491	CGCCUUC A UACACAC	15294	WNV-1491 Dz-7 stab3	gugugua GGCTAGCTACAACCA gaagggc B	23057	37029
1562	GACACCA A UGCAUAC	15295	WNV-1562 Dz-7 stab3	guaugca GGCTAGCTACAACCA ugguguc B	23058	37030
3089	AGGUCA A UGAUACG	15296	WNV-3089 Dz-7 stab3	cguauc GGCTAGCTACAACCA ugagccu B	23059	37031
5582	ACUUCAG A UCCAUUC	15297	WNV-5582 Dz-7 stab3	gaauuga GGCTAGCTACAACCA cugaagu B	23060	37032
6823	UGUGCUA A UUCUGA	15298	WNV-6823 Dz-7 stab3	ucaggaa GGCTAGCTACAACCA uagcaca B	23061	37033
415	AAGAGGA G GAAAGAC	15299	WNV-415 Amb.Rz-7 stab3	gucuuuc GgaggaacucC CUUCAaggacaucgucCGGG uccucuu B	23062	37034
2552	GAGGCUU G GAUGGAC	15300	WNV-2552 Amb.Rz-7 stab3	guccauc GgaggaacucC CUUCAaggacaucgucCGGG aagccuc B	23063	37035
4097	GAGAAGA G GAGUGCA	15301	WNV-4097 Amb.Rz-7 stab3	ugcacuc GgaggaacucC CUUCAaggacaucgucCGGG ucuucuc B	23064	37036
4186	UGCUGCU G GACUGAU	15302	WNV-4186 Amb.Rz-7 stab3	aucaguc GgaggaacucC CUUCAaggacaucgucCGGG agcagca B	23065	37037
6577	GAAAGGA G GAAGAGC	15303	WNV-6577 Amb.Rz-7 stab3	gcucuc GgaggaacucC CUUCAaggacaucgucCGGG uccuuuc B	23066	37038
2680	GGAAGCA G UGAAGGA	15304	WNV-2680 Zin.Rz-7 amino stab4	uccuucc gccgaaaggCgagugaGGuCu ugcuucc B	23067	37039
3432	CACCACU G CGCUACC	15305	WNV-3432 Zin.Rz-7 amino stab4	gguaagc gccgaaaggCgagugaGGuCu aguggug B	23068	37040
4044	UGGAUGU G UACAGGA	15306	WNV-4044 Zin.Rz-7 amino stab4	uccugua gccgaaaggCgagugaGGuCu acaucca B	23069	37041
6864	ACAACCA G CUAGCCG	15307	WNV-6864 Zin.Rz-7 amino stab4	cgguuag gccgaaaggCgagugaGGuCu ugguuu B	23070	37042
8962	AGAAGCA G UUGAAGA	15308	WNV-8962 Zin.Rz-7 amino stab4	ucuucaa gccgaaaggCgagugaGGuCuugcuuc B	23071	37043

Table XIII

Input Sequence = AF196835. Cut Site = UH/.  
Arm Length = 8. Core Sequence = CUGAUGAG GCCGUUAGGC CGAA  
AF196835 West Nile virus strain NY99-flamingo382-99,  
complete genome  
lower case = 2'-O-methyl  
UPPER CASE = RIBO  
**BOLD** = 2'-amino  
B = inverted deoxy abasic  
*ITALIC* = 2'-deoxy

Table XIV

Table XIV: In vitro cleavage data

RPI #	Site/Motif	Enzymatic Nucleic Acid Sequence	Seq ID No.	% cleaved	Substrate	Seq ID No.
23047	WNV-698 Rz-7 Ome stab1	ucuucca CUGAUGAggcccguuagggccGAA Accugac B	37019	89.68	GUCAGGU A UGGAAGA B	37056
23048	WNV-3021 Rz-7 Ome stab1	ccguuucc CUGAUGAggcccguuagggccGAA Augaucu B	37020	93.10	AGAUCAU U GGAACGG B	37057
23049	WNV-4082 Rz-7 Ome stab1	ccugauc CUGAUGAggcccguuagggccGAA Agcugcc B	37021	89.54	GGCAGCU U GAUCAGG B	37058
23050	WNV-7400 Rz-7 Ome stab1	gcgcucu CUGAUGAggcccguuagggccGAA Auucugg B	37022	94.82	CCAGAAU U AGAGCGC B	37059
23051	WNV-9915 Rz-7 Ome stab1	cuggaga CUGAUGAggcccguuagggccGAA Augcgag B	37023	90.92	CUCGCAU A UCUCGAG B	37060
23052	WNV-256 CHz-7 Ome stab1	aaccuga CUGAUGAggcccguuagggccGAA Iaacgcc B	37024	90.06	GGCGUUC U UCAGGUU B	37061
23053	WNV-1488 CHz-7 Ome stab1	uguauga CUGAUGAggcccguuagggccGAA Igcgccg B	37025	76.12	CGGCGCC U UCAUACA B	37062
23054	WNV-6802 CHz-7 Ome stab1	aagagaa CUGAUGAggcccguuagggccGAA Igagagc B	37026	88.59	GCUCUCC C UUCUCUU B	37063
23055	WNV-7344 CHz-7 Ome stab1	ugaaucc CUGAUGAggcccguuagggccGAA Iccgcug B	37027	91.26	CAGCGGC C GGAUACA B	37064
23056	WNV-9733 CHz-7 Ome stab1	uugagga CUGAUGAggcccguuagggccGAA Iuggagc B	37028	78.91	GCUCCAC U UCCUCA A B	37065
23057	WNV-1491 Dz-7 stab3	gugugua GGCTAGCTACAACGA gaaggcg B	37029	72.13	CGCCUUC A UACACAC B	37066
23058	WNV-1562 Dz-7 stab3	guaugca GGCTAGCTACAACGA ugguguc B	37030	86.07	GACACCA A UGCAUAC B	37067
23059	WNV-3089 Dz-7 stab3	cguauc GGCTAGCTACAACGA ugagccu B	37031	87.00	AGGCUCA A UGAUACG B	37068
23060	WNV-5582 Dz-7 stab3	gaaugga GGCTAGCTACAACGA cugaagu B	37032	39.77	ACUUCAG A UCCAUUC B	37069
23061	WNV-6823 Dz-7 stab3	ucaggaa GGCTAGCTACAACGA uagcaca B	37033	89.13	UGUGCUA A UUCUUGA B	37070
23062	WNV-415 Amb.Rz-7 stab3	gucuunc GgaggaacucC CUUCaaggacaucgucCGGG uccucuu B	37034	24.90	AAGAGGA G GAAAGAC B	37071
23063	WNV-2552 Amb.Rz-7 stab3	guccauc GgaggaacucC CUUCaaggacaucgucCGGG aagccuc B	37035	53.89	GAGGCUU G GAUGGAC B	37072

400.03

Table XIV

23064	WNV-4097 Amb.Rz-7 stab3	ugcacuc GgaggaaacucC CUUCaaggacaucgucCGGG ucuucuc B	37036	11.57	GAGAAGA G GAGUGCA B	37073
23065	WNV-4186 Amb.Rz-7 stab3	aucaguc GgaggaaacucC CUUCaaggacaucgucCGGG agcagca B	37037	49.54	UGCUGCU G GACUGAU B	37074
23066	WNV-6577 Amb.Rz-7 stab3	gcucuuc GgaggaaacucC CUUCaaggacaucgucCGGG uccuuc B	37038	27.23	GAAAGGA G GAAGAGC B	37075
23067	WNV-2680 Zin.Rz-7 amino stab4	uccuuc ggcgaaggCgagugaGGuCu ugcuuuc B	37039	5.20	GGAAAGCA G UGAAGGA B	37076
23068	WNV-3432 Zin.Rz-7 amino stab4	gguaagc ggcgaaggCgagugaGGuCu aguggug B	37040	85.91	CACCACU G CGCUACC B	37077
23069	WNV-4044 Zin.Rz-7 amino stab4	uccugua ggcgaaggCgagugaGGuCu acaucca B	37041	80.75	UGGAUGU G UACAGGA B	37078
23070	WNV-6864 Zin.Rz-7 amino stab4	cggcuag ggcgaaggCgagugaGGuCu ugguugu B	37042	16.02	ACAACCA G CUAGCCG B	37079
23071	WNV-8962 Zin.Rz-7 amino stab4	uccucaa ggcgaaggCgagugaGGuCu ugcuuuc B	37043	4.93	AGAAGCA G UUGAAGA B	37080

UPPER CASE = RIBO

Lower case = 2'-O-methyl

**Bold** = 2'-deoxy-2'-amino*ITALIC* = 2'-deoxy

B = inverted deoxybasic

I = Inosine

## CLAIMS

1. A nucleic acid molecule that modulates replication of West Nile Virus (WNV).
- 5 2. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is selected from the group consisting of enzymatic nucleic acid, antisense nucleic acid, 2',5'-A nucleic acid, triplex forming nucleic acid, and decoy nucleic acid molecules.
- 10 3. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is effective to treat a condition related to WNV infection, wherein said condition is selected from the group consisting of pancreatitis, encephalitis, myocarditis, meningitis, neurologic infection, hepatitis, liver failure, hepatocellular carcinoma, and cirrhosis.
- 15 4. The nucleic acid molecule of claim 3, wherein said nucleic acid molecule is used in conjunction with one or more other therapies for the treatment of said condition.
5. The nucleic acid molecule of claim 4, wherein said other therapy is selected from the group consisting of antivirals and interferons.
- 20 6. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule is chemically synthesized.
7. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises at least one 2'-sugar modification.
8. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises at least one nucleic acid base modification.
- 25 9. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises at least one phosphate backbone modification.
10. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises at least one 2'-sugar modification and at least one phosphate backbone modification.

11. The nucleic acid molecule of claim 1, wherein said nucleic acid comprises a cap structure, wherein the cap structure is at the 5'-end or 3'-end, or both the 5'-end and the 3'-end.
- 5 12. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises between 12 and 100 bases complementary to a RNA molecule of WNV.
13. The nucleic acid of any of claim 1, wherein said nucleic acid molecule comprises between 14 and 24 bases complementary to a RNA molecule of WNV.
- 10 14. A method of down regulating the replication of WNV in a cell, comprising the step of contacting said cell with the nucleic acid molecule of claim 1, under conditions suitable for said down regulation of WNV replication.
- 15 15. A method of down regulating the replication of WNV in a mammal comprising the step of administering the nucleic acid molecule of claim 1 to the mammal, under conditions suitable for said down regulation of WNV replication.
16. A method of reducing WNV activity in a cell, comprising the step of contacting said cell with the nucleic acid molecule of claim 1, under conditions suitable for said reduction of WNV activity.
- 20 17. A method of treating a patient having a condition associated with the level of WNV comprising the step of contacting cells of said patient with the nucleic acid molecule of claim 1, under conditions suitable for said treatment.
18. The method of claim 15 further comprising the use of one or more other therapies under conditions suitable for said treatment.
- 25 19. The method of claim 18, wherein said other therapy is selected from the group consisting of antivirals and interferon.
20. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves RNA derived from WNV.
- 30 21. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves plus strand RNA derived from WNV.

22. The nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule cleaves minus strand RNA derived from WNV.
23. The enzymatic nucleic acid of claim 2 having at least one binding arm wherein the binding arm of said enzymatic nucleic acid molecule comprises a sequence complementary to any of the sequences of SEQ ID NOs 1-15,308
24. The enzymatic nucleic acid molecule of claim 2, wherein said enzymatic nucleic acid molecule comprises any of the sequences of SEQ ID NOs 15,309-37,043.
25. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule inhibits the activity of RNA derived from WNV.
26. The antisense nucleic acid molecule of claim 25, wherein said antisense nucleic acid molecule inhibits the activity of plus strand RNA derived from WNV.
27. The nucleic acid molecule of claim 25, wherein said antisense nucleic acid molecule inhibits the activity of minus strand RNA derived from WNV.
28. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a sequence complementary to any of the sequences of SEQ ID NOs 1-15,308.
29. An enzymatic nucleic acid molecule that cleaves RNA derived from the WNV.
30. The enzymatic nucleic acid molecule of claim 2 or claim 29, wherein said enzymatic nucleic acid molecule is selected from the group consisting of Hammerhead, Inozyme, G-cleaver, DNAzyme, Amberzyme and Zinzyme.
31. The enzymatic nucleic acid molecule of claim 2 or claim 29, wherein said enzymatic nucleic acid molecule is in a hairpin, hepatitis Delta virus, group I intron, VS nucleic acid, or RNase P nucleic acid motif.
32. The enzymatic nucleic acid molecule of claim 30, wherein said Hammerhead motif comprises a sequence complementary to any of the substrate sequences in Tables III and VIII.

33. The enzymatic nucleic acid molecule of claim 30, wherein said Inozyme motif comprises a sequence complementary to any of the substrate sequences in Tables IV and IX.
- 5 34. The enzymatic nucleic acid molecule of claim 30, wherein said DNAzyme comprises a sequence complementary to any of the substrate sequences in Tables VI and XI.
35. The enzymatic nucleic acid molecule of claim 30, wherein said Zinzyme comprises a sequence complementary to any of the substrate sequences in Tables V and X.
- 10 36. The enzymatic nucleic acid molecule of claim 30, wherein said Amberzyme comprises sequences complementary to any substrate sequences in Tables VII and XII.
- 15 37. The enzymatic nucleic acid molecule of claim 30, wherein said Hammerhead comprises at least five ribose residues, at least ten 2'-*O*-methyl modifications, and a 3'- end modification.
38. The enzymatic nucleic acid molecule of claim 37, wherein said Hammerhead further comprises phosphorothioate linkages on at least three of the 5' terminal nucleotides.
- 20 39. The enzymatic nucleic acid molecule of claim 37, wherein said 3'- end modification is a 3'-3' inverted abasic moiety.
40. The enzymatic nucleic acid molecule of claim 30, wherein said Inozyme comprises at least five ribose residues, at least ten 2'-*O*-methyl modifications, and a 3'- end modification.
- 25 41. The nucleic acid molecule of claim 40, wherein said Inozyme further comprises phosphorothioate linkages on at least three of the 5' terminal nucleotides.
42. The nucleic acid molecule of claim 40, wherein said a 3'- end modification is 3'-3' inverted abasic moiety.
- 30 43. The enzymatic nucleic acid molecule of claim 30, wherein said DNAzyme comprises at least ten 2'-*O*-methyl modifications.

44. The enzymatic nucleic acid molecule of claim 43, wherein said DNAzyme further comprises phosphorothioate linkages on at least one of the 5' terminal nucleotides.
- 5 45. The enzymatic nucleic acid molecule of claim 44, wherein said DNAzyme further comprises a 3'-end modification.
46. The enzymatic nucleic acid molecule of claim 45, wherein said 3'- end modification is a 3'-3' inverted abasic moiety.
47. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises at least ten 2'-O-methyl modifications.
- 10 48. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a region that is an RNase H activating region.
49. The nucleic acid molecule of claim 48, wherein said RNase H activating region comprises a region having at least five deoxyribonucleotides.
- 15 50. The nucleic acid molecule of claim 49, wherein said RNase H activating region further comprises one or more phosphate backbone modification.
51. The nucleic acid molecule of claim 50, wherein said phosphate backbone modification is a phosphorothioate or phosphorodithioate modification.
- 20 52. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises an RNase H activating region and a non-RNase H activating region.
53. The antisense nucleic acid molecule of claim 2, wherein said antisense nucleic acid molecule comprises a 5'-end modification, a 3'-end modification or both a 5'-end and a 3'-end modification.
- 25 54. The antisense nucleic acid molecule of claim 53, wherein said 3'- end modification is selected from the group consisting of 3'-3' inverted abasic moiety, 3'-3' inverted nucleotide moiety, and phosphate backbone modification.
- 30 55. The antisense nucleic acid molecule of claim 53, wherein said 5'-end modification is selected from the group consisting of 5',5'-inverted abasic

moiety, 5'-5' inverted nucleotide moiety, and phosphate backbone modification.

56. A method of cleaving WNV RNA comprising contacting the enzymatic nucleic acid molecule of claim 2 or claim 29 with said RNA under conditions suitable for the cleavage of said RNA.
57. The method of claim 56, wherein said cleavage is carried out in the presence of a divalent cation.
58. The method of claim 57, wherein said divalent cation is  $Mg^{2+}$ .
59. An expression vector comprising nucleic acid sequence encoding at least one nucleic acid molecule of claim 1, in a manner that allows expression of that nucleic acid molecule.
60. The expression vector of claim 59, wherein said nucleic acid molecule is an enzymatic nucleic acid molecule.
61. The expression vector of claim 59, wherein said expression vector further comprises a sequence for an antisense nucleic acid molecule complementary to the RNA of WNV genome.
62. The expression vector of claim 59, wherein said expression vector comprises sequence encoding at least two said nucleic acid molecules that can be same or different.
63. The expression vector of claim 62, wherein one said nucleic acid molecule comprises sequence encoding at least one antisense nucleic acid molecule complementary to RNA derived from the WNV.
64. The expression vector of claim 62, wherein one said nucleic acid molecule comprises at least one sequence encoding an enzymatic nucleic acid molecule complementary to RNA derived from the WNV.
65. A pharmaceutical composition comprising the nucleic acid molecule of claim 1 in a pharmaceutically acceptable carrier.
66. A kit for the treatment of patients infected with WNV comprising the nucleic acid molecule of claim 1.

67. A kit for detecting WNV in a system comprising the nucleic acid molecule of claim 1.
68. A method of administering to a cell the nucleic acid molecule of claim 1 comprising contacting said cell with the nucleic acid molecule under conditions suitable for said administration.
- 5 69. The method of claim 68, wherein said cell is a mammalian cell.
70. The method of claim 69, wherein said cell is a human cell.
71. The method of claim 68, wherein said administration is in the presence of a delivery reagent.
- 10 72. The method of claim 71, wherein said delivery reagent is a lipid.
73. The method of claim 72, wherein said lipid is a cationic lipid.
74. The method of claim 72, wherein said lipid is a phospholipid.
75. The method of claim 71, wherein said delivery reagent is a liposome.

[illegible]

**$\underline{U}, \underline{C}$  = 2'-NH<sub>2</sub>-U, C**  
**Lower case = 2'-O-Me**  
**Uppercase = Ribo**

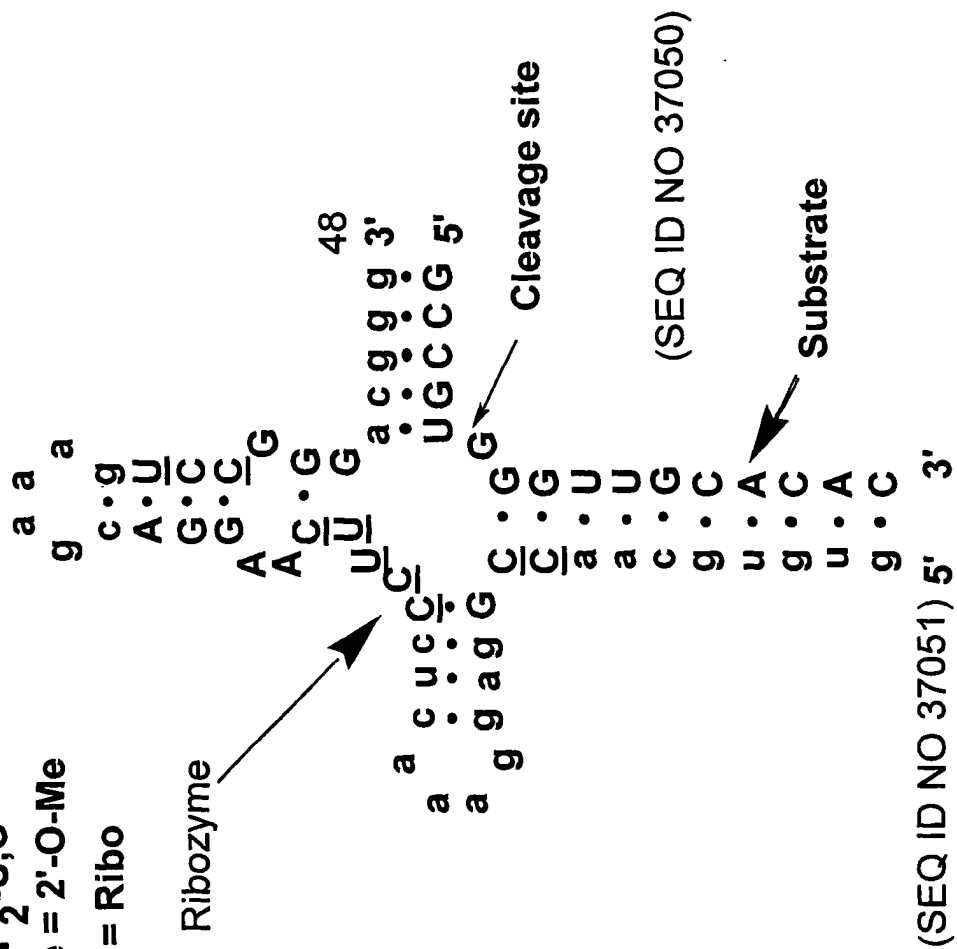
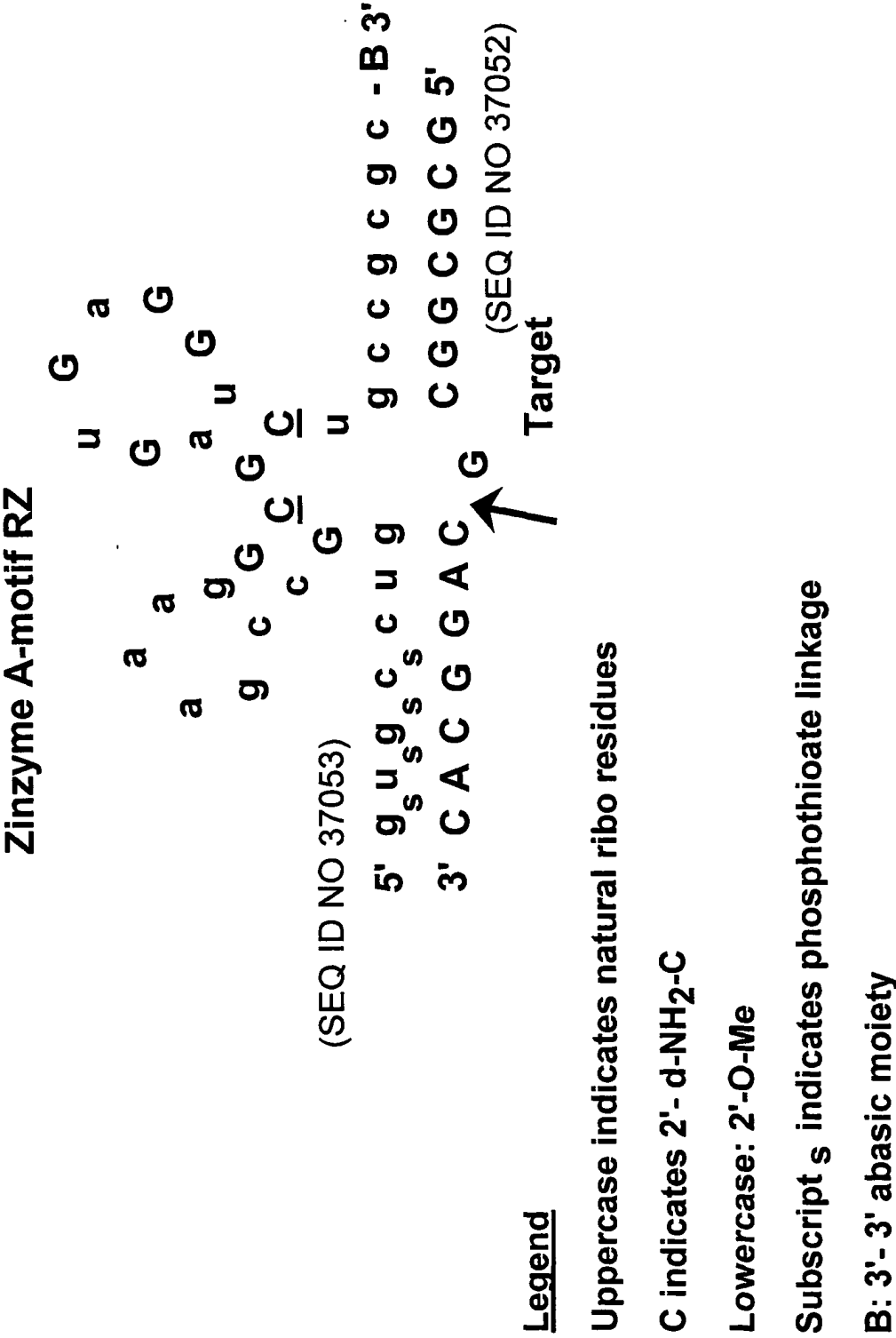
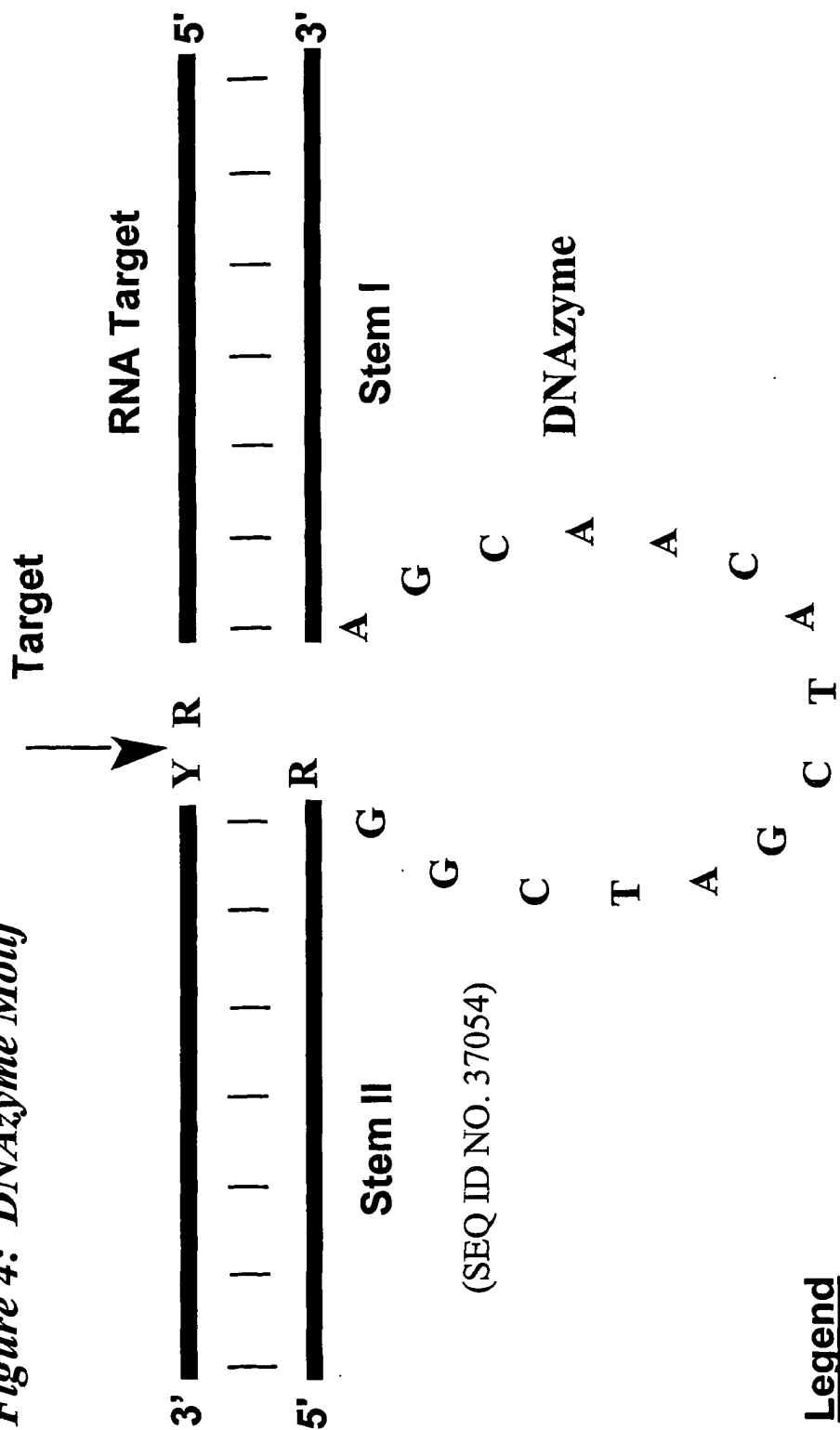


Figure 3: Stabilized Zinzyme Ribozyme Motif



**Figure 4: DNAzyme Motif**



**Legend**  
Y = U or C  
R = A or G